TOWN OF NAGS HEAD BID SET

DOWDY PARK PHASE 1

TOWN OF NAGS HEAD, NORTH CAROLINA

3005 SOUTH CROATAN HIGHWAY
NAGS HEAD, NC 27959

LEGEND

SURFACE FEATURES:

EXISTING	DESCRIPTION
	BUILDING LINE (EXISTING)
	DITCH CENTERLINE (EXIST.)
	CURB/PAVEMENT/SIDEWALK (EX)
	FENCE (EXISTING)
	VEGETATION/TREELINE
	RETAINING WALL (EXISTING)

SURVEY:

	CENTERLINE (EXISTING)
	CONTOUR (DEPRESSION)
	CONTOUR (INDEX) (EXIST.)
	EASEMENT
	PROPERTY LINE (EXISTING)
	RIGHT-OF-WAY (CURRENT)
	BOUNDARY LINE
	EDGE OF PAVEMENT (EXISTING)

UTILITIES (EXISTING):

FO	FIBER OPTIC (BURIED)
CTV	CABLE TELEVISION (BURIED)
FM	FORCE MAIN
GAS	GAS
OHE	POWER (AERIAL)
UGE	POWER (BURIED)
SS	SANITARY SEWER
12"CMP	STORM DRAINAGE
T	TELEPHONE (BURIED)
OHT	TELEPHONE (AERIAL)
W	WATER

CONSTRUCT	DESCRIPTION
	BUILDING LINE
	DITCH CENTERLINE
	CURB(PROP)
	CURB/PAVEMENT/SIDEWALK
SF SF SF	SILT FENCE
* * *	CONTOUR (INDEX)
	TOP OF BANK (PROPOSED)
	CONSTRUCTION LIMITS
	GUARDRAIL

ROAD SURFACE MATERIAL

SYMBOL	DESCRIPTION
	EXISTING PAVEMENT SCHEDULED FOR REMOVAL
	EXISTING CONCRETE SURFACE

GAS/POWER/TELEPHONE

SYMBOL EXIST.	SYMBOL CONSTRUCT	DESCRIPTION
△	▲	PAD MOUNTED TRANSFORMER
P	P	POWER VAULT
		UTILITY POLE
		POWER POLE
		UTILITY POLE ANCHOR
		LIGHT POLE
		TELEPHONE PEDESTAL
T	T	TELEPHONE VAULT

SURVEY

SYMBOL EXIST.	SYMBOL CONSTRUCT	DESCRIPTION
		BENCH MARK
		NAIL/DRILL HOLE
		EX. IRON REBAR/IRON PIPE
		CONCRETE MONUMENT
		GEODETIC MONUMENT
×		SPOT ELEVATION

DRAINAGE

SYMBOL EXIST.	SYMBOL CONSTRUCT	DESCRIPTION
		STORM DRAIN CATCH BASIN
		STORM DRAIN INLET
		STORM DRAIN PIPE
		STORM DRAIN JUNCTION
25 LF. 12"		STORM PIPE(PROPOSED) DOUBLE LINE TO SIZE OF PIPE DIAMETER

WATER

SYMBOL EXIST.	SYMBOL CONSTRUCT	DESCRIPTION
	GP	GUARD POST
FH	FH	FH
GV		WATER VALVE
WM	WM	WATER METER

UTILITY NOTE

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER NORTH CAROLINA 811 (TOLL FREE PHONE NO. 1-800-623-4949) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE NORTH CAROLINA811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED TOWN OF NAGS HEAD INFRASTRUCTURE IMPROVEMENT PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.

North Carolina
One-Call Center Inc.
811
Know what's below
Call before you dig.

TOWN OF NAGS HEAD GENERAL NOTES

1. DEVELOPER: TOWN OF NAGS HEAD
   P.O. BOX 99
   NAGS HEAD, NC 27959
2. NO A.C.O.E. JURISDICTIONAL 404 WETLANDS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE SCHEDULED WORK.
3. PRIOR TO ANY LAND DISTURBING ACTIVITIES COMMENCING, A SEDIMENT & EROSION CONTROL PERMIT MODIFICATION SHALL BE SECURED THROUGH THE NCDEQ DEMLR.
4. EXISTING VEGETATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE.
5. NO SCHEDULED IMPROVEMENTS ARE PLANNED TO OCCUR WITHIN THE NCDOT RIGHT-OF-WAY. IF ANY LAND DISTURBING ACTIVITIES ARE SCHEDULED, AN NCDOT RIGHT-OF-WAY ENCROACHMENT AGREEMENT SHALL BE SECURED PRIOR TO PERFORMING ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.
6. PRIOR TO ANY LAND DISTURBING ACTIVITIES COMMENCING, STORMWATER APPROVAL SHALL BE SECURED THROUGH THE NCDEQ, DEMLR.

THE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, COMPLETE, AND CURRENT. THE TOWN OF NAGS HEAD MAKES NO WARRANTY AS TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THE CONTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK UNTIL AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

BENCHMARK

NOTE: ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM

SOURCE BENCHMARK "T-166 " NCGS MONUMENT

TBM#1 - NAIL AT INTERSECTION OF BONNETT ST./WRIGHTSVILLE AVE., ELEV.: 8.83 (CTRL PT #1)

TBM#2 - CONCRETE MONUMENT AT SW PROPERTY CORNER ELEV.: 10.82 (CTRL PT #2)

OWNER AND DESIGNER INFORMATION

OWNER:	TOWN OF NAGS HEAD
OWNER CONTACT:	ANDY GARMAN TOWN OF NAGS HEAD PLANNING DEPARTMENT P.O. BOX 99 NAGS HEAD, NC 27959 PHONE: 252.449.2006
CIVIL ENGINEER:	DAVID RYAN, P.E. TOWN OF NAGS HEAD DEPT. OF PUBLIC WORKS P.O. BOX 99 NAGS HEAD, NC 27959 PHONE: 252.441.6221
DESIGNER:	BILL HAMILTON CLH DESIGN, PA REGENCY PARK 400 REGENCY FOREST DR., SUITE 120 CARY, NC 27518 PHONE: 919.319.6716
ARCHITECT:	MARK KASTEN CAHOON & KASTEN ARCHITECTS 118 W. WOODHILL DR. NAGS HEAD, NC 27948 PHONE: 252.441.0271
PME ENGINEER	JIM BEDOIS, P.E. PACE COLLABORATIVE 1277 PERIMETER PARKWAY VIRGINIA BEACH, VA 23454 PHONE: 757.499.7223

SITE DATA TABLE

1.	PROJECT NAME:	DOWDY PARK NAGS HEAD TOWNSHIP DARE COUNTY, NORTH CAROLINA	
2.	PROPERTY ADDRESS:	3005 S. CROATAN HWY. NAGS HEAD, NC 27959	
3.	OWNER:	TOWN OF NAGS HEAD P.O. BOX 99 NAGS HEAD, NC 27959	
4.	PARCEL NUMBER:	005708000	
5.	RECORDED REFERENCE:	D.B. 1957 PG 170	
6.	MINIMUM BUILDING SETBACKS:	FRONT YARD: (BONNETT) 15 SIDE YARD: (US 158/WRIGHTSVILLE) 15 REAR YARD: (COMMON PROP LINE W/ NHES) 25	
7.	TOTAL PROJECT AREA:	219,579 S.F.±	5.04 AC.
8.	F.I.R.M. ZONE:	ZONE AE(10)/X, 3720989200J 9/20/2006	
9.	PROPERTY ZONING:	GENERAL COMMERCIAL (C-2)	
10.	USE CLASSIFICATION: ADJACENT USES:	MUNICIPALLY-OWNED RECREATION FACILITY INSTITUTIONAL/RESIDENTIAL/COMMERCIAL	

11. ALL SURVEY DATA IS REFERENCED TO NAVD 88.
12. PHYSICAL AND BOUNDARY SURVEY PREPARED BY BARNETTE INTEGRATED LAND DEVELOPMENT, INC., TITLED TOWN OF NAGS HEAD, DOWDY PARK, DATED 2-19-16
11. EXISTING LOT DEVELOPMENT COVERAGE: VACANT
12. PROPOSED LOT DEVELOPMENT COVERAGE:

PHASE ONE		
	ASPHALT PARKING AND DRIVES	15,943 SF
	EVENT PLAZA (CONC.)	12,024 SF
	PERMEABLE PAVERS	2,154 SF
	PAVILION	1,390 SF
	MAIN CONC. SIDEWALK	13,896 SF
	TRIBUTARY CONC. WALKS	2,369 SF
	PLAYGROUND (POURED IN PLACE)	2,034 SF
	PLAYGROUND EQUIPMENT	756 SF
	WOOD WALKWAY	1,032 SF
	TOTAL LOT COVERAGE	51,598 SF
	% LOT COVERAGE	23.50%

13	PARKING REQUIREMENTS: (CURRENT & FUTURE USE)	2 spaces per 1 acre of passive recreation area 30 spaces per multi-purpose recreation field (future)	
		# of ACRES OF PASSIVE RECREATION	3.24
		# of MULTI-PURPOSE FIELDS (FUTURE PHASE)	1
		TOTAL # OF PARKING SPACES REQUIRED	37
		TOTAL # OF PARKING SPACES PROVIDED	40
		TOTAL # OF H/C PARKING SPACES REQUIRED	2
		TOTAL # OF H/C PARKING SPACES PROVIDED	4
		PARKING SETBACKS	5 FT
14	EROSION & SEDIMENT CONTROL:	PHASE ONE DISTURBED ACREAGE	5 AC.
		PHASE ONE CONSTRUCTION LIMITS AREA	3.24 AC.
	NOTE: AN NCDENR DEMLR SEDIMENT & EROSION CONTROL PERMIT SHALL BE OBTAINED PRIOR TO LAND-DISTURBING ACTIVITIES		
15	STORMWATER MANAGEMENT:	STATE: AN NCDEQ DEMLR REDEVELOPMENT EXCLUSION REQUEST HAS BEEN FILED AND SHALL BE OBTAINED IN ADVANCE OF LAND-DISTURBING ACTIVITIES TOWN: THE REQUIREMENTS OF SECTION 34-5 OF THE TOWN OF NAGS HEAD	
16	LIGHTING	THE REQUIREMENTS OF SECTION 48-326 LIGHTING REQUIRED OF THE TOWN OF NAGS HEAD CODE OF ORDINANCES SHALL BE MET	
17	BUILDING HEIGHT	THE MAXIMUM BUILDING HEIGHT SHALL BE 35'	

DRAWING INDEX

CIVIL

C-0.0 COVER PAGE
C-1.1 SITE STAKING AND PAVEMENT MARKING PLAN
C-1.2 STAKING ENLARGEMENTS
C-2.0 EX. CONDITIONS/EROSION CONTROL/DEMOLITION PLAN
C-3.0 SITE GRADING, DRAINAGE AND CONDUIT PLAN
C-5.0 LANDSCAPE PLAN (NOT IN CONTRACT)
C-7.1 SITE DETAILS
C-7.2 SITE DETAILS
C-7.3 SITE DETAILS
C-7.4 SITE DETAILS
C-7.5 SITE DETAILS
C-7.6 SITE DETAILS
C-7.7 SITE DETAILS

ARCHITECTURAL

A-0.1 CODE SUMMARY
A-1.1 PAVILION FOUNDATION AND FLOOR PLAN
A-1.2 PAVILION ROOF AND REFLECTED CEILING PLAN
A-1.3 PAVILION ROOF FRAMING PLAN
A-2.1 PAVILION EXTERIOR ELEVATIONS.
A-3.1 PAVILION BUILDING SECTIONS
A-4.1 PAVILION CONSTRUCTION DETAILS
A-4.2 PAVILION COLUMN ELEVATIONS
A-4.3 PAVILION RAFTER TIE DETAILS

PLUMBING

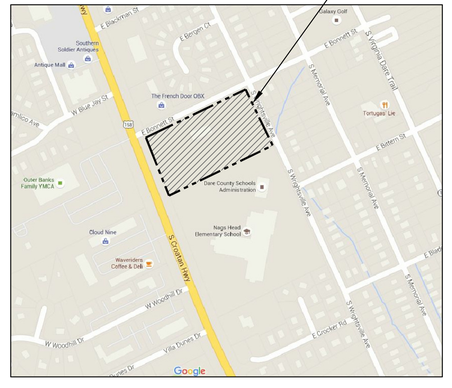
P-0.1 PLUMBING GENERAL NOTES, LEGEND & ABBREVIATIONS
P-1.0 SITE PLAN

ELECTRICAL

E-0.1 ELECTRICAL GENERAL NOTES, LEGEND & ABBREVIATIONS
E-0.2 ONE-LINE DIAGRAM & DETAILS
E-0.3 LIGHTING DETAILS
E-0.4 LIGHTING DETAILS
E-1.0 SITE PLAN
E-1.1 PAVILION PLANS

VICINITY MAP 1"=400'

SITE



THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 030406 ENGINEER DAVID M. RYAN

6/21/2016

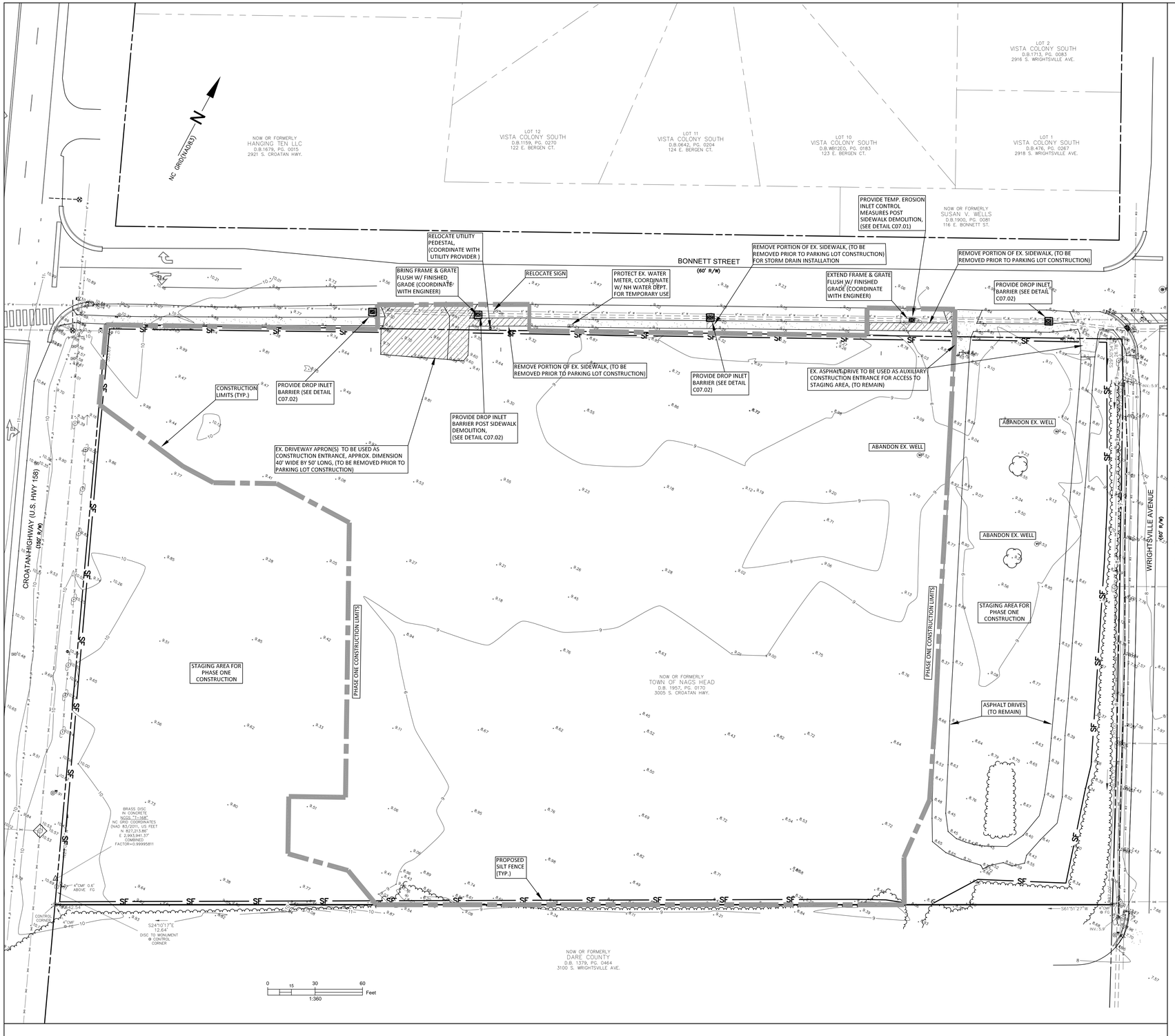
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 S. CROATAN HWY.

REVISIONS	DESCRIPTION	DATE	NO.
	RELEASED FOR BID ADDENDUM #	6-2-16 6-21-16	1 2

DESIGNED BY: AMR/BH
DRAWN BY: HBR
DATE: APRIL-2016
PROJECT NO: 16-115
FILE:

COVER SHEET

C0.0



CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITY CONSTRUCTION ACCESS- CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS	SCHEDULE CONSIDERATION FIRST LAND-DISTURBING ACTIVITY-STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL & TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.
SEDIMENT TRAPS & BARRIERS BASIN TRAPS, SEDIMENT FENCES, & OUTLET PROTECTION	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL- DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENTS TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL CONVEYANCE MEASURES DURING GRADING.
RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET & OUTLET PROTECTION, SLOPE DRAINS	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
LAND CLEARING & GRADING- SITE PREPARATION- CUTTING, FILLING & GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL & KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW & DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES & BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION- TEMPORARY & PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
BUILDING CONSTRUCTION- BUILDINGS, UTILITIES, PAVING.	INSTALL NECESSARY EROSION & SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
LANDSCAPING & FINAL STABILIZATION- TOPSOILING, TREES & SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	STABILIZE ALL OPEN AREAS, INCLUDING BORROW & SPOIL AREAS. REMOVE & STABILIZE ALL TEMPORARY CONTROL MEASURES.

TEMPORARY SEEDING TABLE
THE PURPOSE OF TEMPORARY SEEDING IS TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD AS NOTED IN THE TABLE BELOW;

	SITE GRADING ACTIVITY DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
1.	PERIMETER DIKES, SWALES, DITCHES & SLOPES	7 DAYS	NONE
2.	HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
3.	SLOPES STEEPER THAN 3:1 HOR:VERT	7 DAYS	IF SLOPES ARE LESS THAN 10' IN LENGTH & ARE NOT STEEPER THAN 2:1 HOR:VERT 14 DAYS IS ALLOWED
4.	SLOPES 3:1 HOR:VERT OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
5.	SLOPES 4:1 HOR:VERT OR FLATTER	14 DAYS	NONE (EXCEPT ACTIVITIES 1 &2)

TEMPORARY SEEDING SPECIFICATIONS
SEEDING RECOMMENDATIONS FOR LATE WINTER & EARLY SPRING
SEEDING DATES- DECEMBER 1 TO APRIL 15
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
WINTER RYE (GRAIN) 120 (ANNUAL RYEGRASS SHALL NOT BE USED)
ANNUAL LESPEDEZA 50
(KOBE)
*OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS-
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH-
APPLY 4,000-LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE-
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH
IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR SUMMER
SEEDING DATES- APRIL 15 TO AUGUST 15
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
GERMAN MILLET 40

SOIL AMENDMENTS-
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND
AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH-
APPLY 4,000-LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE-
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR FALL
SEEDING DATES- AUGUST 15 TO DECEMBER 30
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
WINTER RYE (GRAIN) 120
SOIL AMENDMENTS-
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND
AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH-
APPLY 4,000-LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE-
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE:
THE CONTRACTOR SHALL INDICATE TO THE ENGINEER THE SOURCE FROM WHICH FILL MATERIAL WILL BE OBTAINED FROM. THE MATERIAL SHALL BE FROM A STATE APPROVED SOURCE AND BE PROVIDED TO NCDENR-DLR PRIOR TO COMMENCING WITH ANY ON-SITE CONSTRUCTION ACTIVITIES.

LAND GRADING CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT & MAINTAIN ALL EROSION & SEDIMENTATION CONTROL PRACTICES & MEASURES IN ACCORDANCE WITH THE APPROVED SEDIMENTATION CONTROL PLAN AND CONSTRUCTION SCHEDULE.
2. REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.
3. SCARIFY AREAS TO BE TOPSOILED TO A MINIMUM DEPTH OF 2 INCHES BEFORE PLACING TOPSOIL.
4. CLEAR & GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANNED STABILITY OF FILL.
5. ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILLS.
6. PLACE ALL FILL IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS, AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
7. DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.
8. DO NOT PLACE FILL ON A FROZEN FOUNDATION, DUE TO POSSIBLE SUBSIDENCE AND SLIPPAGE.
9. KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
10. HANDLE SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH APPROVED METHODS.
11. PROVIDE A GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDER DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDER DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
12. PROVIDE ADEQUATE PROTECTION FROM EROSION FOR ALL TOPSOIL STOCKPILES, BORROW AREAS, AND SPOIL AREAS.

MAINTENANCE
PERIODICALLY CHECK ALL GRADED AREAS & THE SUPPORTING EROSION & SEDIMENTATION CONTROL PRACTICES, AT A MINIMUM OF ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN HALF AN INCH. PROMPTLY REMOVE ALL SEDIMENT FROM DIVERSIONS AND OTHER WATER-DISPOSAL PRACTICES. IF WASHOUTS OR BREAKS OCCUR, REPAIR THEM IMMEDIATELY. PROMPT MAINTENANCE OF SMALL-ERODED AREAS BEFORE THEY BECOME SIGNIFICANT GULLIES IS AN ESSENTIAL PART OF AN EFFECTIVE EROSION & SEDIMENTATION CONTROL PLAN. IMMEDIATE CORRECTIVE ACTION MUST BE TAKEN FOR ANY DEVICE FAILURE. IF SEDIMENT HAS BEEN OBSERVED TO HAVE BEEN DEPOSITED IN A STREAM OR WETLAND, THE DIVISION OF WATER QUALITY MUST BE NOTIFIED WITHIN 24 HOURS AND A WRITTEN NOTICE PROVIDED WITHIN 5 DAYS.

PERMANENT SEEDING
THE PURPOSE OF PERMANENT SEEDING IS TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS, AND TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS. THESE AREAS MUST BE SEEDED OR PLANTED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS AFTER FINAL GRADE IS REACHED, UNLESS TEMPORARY STABILIZATION IS APPLIED.

PERMANENT SEEDING SPECIFICATIONS
SEEDING RECOMMENDATIONS FOR SUMMER
SEEDING DATES- APRIL TO JULY
SEEDING MIXTURE
SPECIES RATE
COMMON BERMUDAGRASS 10/1,000 SF (SPRIGS)
1-2 LB/1,000 SF (SEED)

SEEDING NOTES-
1. SPRIG OR SOD. MOISTURE IS ESSENTIAL DURING INITIAL ESTABLISHMENT. SOD MUST BE KEPT WATERED FOR 2-3WEEKS, BUT CAN BE PLANTED EARLIER OR LATER THAN SPRIGS.

SOIL AMENDMENTS-
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS OR APPLY 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE 10-10-10 FERTILIZER, OR 50 LB/ACRE NITROGEN FROM TURF-TYPE
SLOW-RELEASE FERTILIZER. ADD 25-50 LB/ACRE NITROGEN AT 2-3 WEEK INTERVALS THROUGH MIDSUMMER.

SPRIGGING-
PLANT SPRIGS IN FURROWS WITH A TRACTOR-DRAWN TRANSPLANTER, OR BROADCAST BY HAND.

FURROWS SHOULD BE 4-6 INCHES DEEP AND 2 FEET APART. PLACE SPRIGS ABOUT 2 FT. APART IN A ROW WITH ONE END AT OR ABOVE GROUND LEVEL.

BROADCAST AT RATES SHOWN ABOVE, AND PRESS SPRIGS INTO THE TOP 1/2-2 INCHES OF SOIL WITH A DISK SET STRAIGHT SO THAT SPRIGS ARE NOT BROUGHT BACK TOWARD THE SURFACE.

MULCH- DO NOT MULCH.

MAINTENANCE-
WATER AS NEEDED AND MOW TO 3/4 TO 1-INCH HEIGHT. TOPDRESS WITH 40 LB/ACRE NITROGEN IN APRIL, 50 LB IN MAY, 50 LB IN JUNE, 50 LB IN JULY, AND 25 LB IN AUGUST.

SODDING
THE PURPOSE OF PERMANENT SEEDING IS TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF BY STABILIZING THE SOIL SURFACE WITH PERMANENT VEGETATION FOR THE PURPOSE OF:
-THE PROVISION OF IMMEDIATE VEGETATIVE COVER IN CRITICAL AREAS
-TO STABILIZE DISTURBED AREAS WITH A SUITABLE PLANT MATERIAL THAT CANNOT BE ESTABLISHED BY SEED.
-TO STABILIZE DRAINAGEWAYS & CHANNELS AND OTHER AREAS OF CONCENTRATED FLOW WHERE FLOW VELOCITIES WILL NOT EXCEED THAT SPECIFIED GRASS LINING.

SODDING SPECIFICATIONS
SOD QUALITY
-SOD SHOULD BE MACHINE CUT AT A UNIFORM DEPTH OF 1/2-2 INCHES
-SOD SHOULD NOT HAVE BEEN CUT IN EXCESSIVELY WET OR DRY WEATHER.
-SECTIONS OF SOD SHOULD BE STANDARD SIZE AS DETERMINED BY THE SUPPLIER, UNIFORM, AND UNTORN.
-SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN LIFTED BY ONE END.
-HARVEST, DELIVERY, AND INSTALLATION OF SOD SHOULD TAKE PLACE WITHIN
A PERIOD OF 36 HOURS.

SOIL AMENDMENTS-
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS OR APPLY 2 TONS/ACRE OF PULVERIZED AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER IN THE FALL, OR 5-10-10 IN SPRING.

PRIOR TO LAYING SOD, CLEAR THE SOIL SURFACE OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES, AND CLODS LARGER THAN 2 INCHES IN DIAMETER. FILL OR LEVEL LOW SPOTS IN ORDER TO AVOID STANDING WATER. RAKE OR HARROW THE SITE TO ACHIEVE A SMOOTH AND LEVEL FINAL GRADE. COMPLETE SOIL PREPARATION BY ROLLING OR CULTIPACKING TO FIRM SOIL.

MAINTENANCE-
AFTER THE FIRST WEEK, WATER AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE & PREVENT DORMANCY OF THE SOD.

DO NOT REMOVE MORE THAN ONE-THIRD OF THE SHOOT IN ANY ONE MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2-3 INCHES UNLESS OTHERWISE SPECIFIED.

AFTER FIRST GROWING SEASON, ESTABLISHED SOD REQUIRES FERTILIZATION, AND MAY ALSO REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS.

THE TOWN OF NAGS HEAD 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 030406 ENGINEER DAVID M. RYAN
6/2/2016

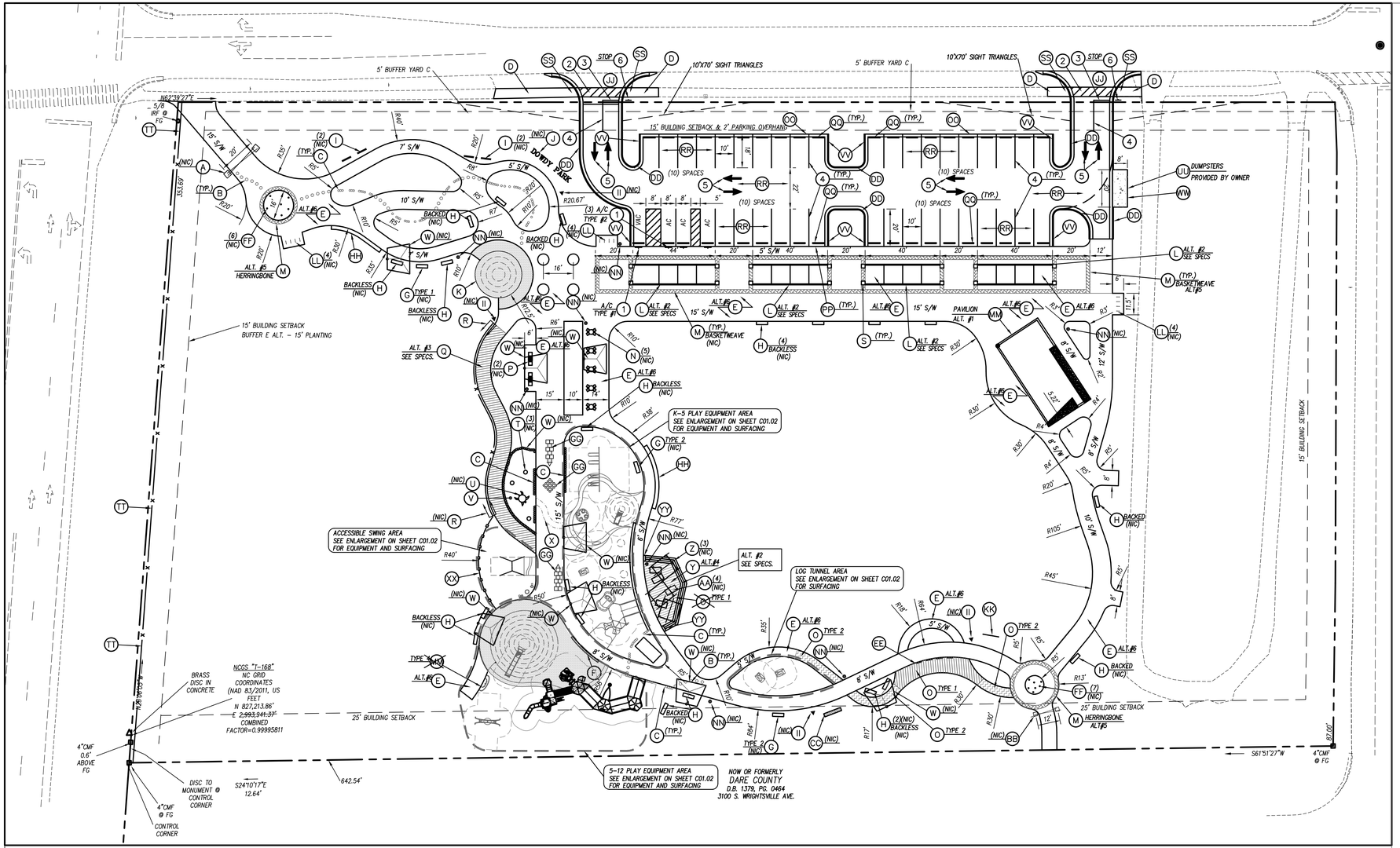
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 S. CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-2-16	RELEASED FOR BID

DESIGNED BY:	AMR/BH
DRAWN BY:	HBR
DATE:	APRIL-2016
PROJECT NO:	16-115
FILE:	.

EXISTING CONDITIONS PLAN/
EROSION AND SEDIMENT CONTROL PLAN

C2.0



KEY NOTES

- (A) LARGE ARBOR, NOT IN CONTRACT
- (B) LOG STAMPED CONCRETE, SEE SPECIFICATIONS.
- (C) PYLONS, SEE DETAIL SHEET C7.6.
- (D) CONCRETE SIDEWALK, SEE DETAIL SHEET C7.1.
- (E) CONCRETE SIDEWALK WITH PICTURE FRAME FINISH, SEE DETAIL SHEET C7.3, ALT.#6
- (F) CHALK WALL, SEE DETAIL SHEET C7.4.
- (G) ART BENCH, SEE DETAIL SHEET C7.6. MOUNT LEGS TO CONCRETE FOOTINGS, NOT IN CONTRACT
- (H) BENCH, SEE SPECIFICATIONS. MOUNT LEGS TO CONCRETE FOOTINGS, NOT IN CONTRACT
- (I) ART PANELS, NOT IN CONTRACT
- (J) FITNESS STATION: DOWDY PARK SCULPTURE, NOT IN CONTRACT
- (K) POURED-IN-PLACE DUNE #1, SEE DETAIL SHEET C7.3.
- (L) PROMENADE TRELLIS, SEE DETAIL SHEET C7.5. SEE SPECS., ALT.#2
- (M) PAVERS, SEE DETAIL SHEET C7.3., ALT#5
- (N) TABLE, NOT IN CONTRACT
- (O) STAMPED CONCRETE, SEE SPECIFICATIONS.
- (P) GAME TABLE, NOT IN CONTRACT
- (Q) FITNESS STATION: WAVY WALK TERRAIN CHALLENGE, SEE DETAIL SHEET C7.6 & SPECIFICATIONS, SEE SPECS., ALT. #3
- (R) SAND FENCE, NOT IN CONTRACT
- (S) 2' X 2' PLANTING WELL, SEE DETAIL SHEET C7.5.
- (T) FOSSIL/NEST IMPRESSIONS, NOT IN CONTRACT
- (U) LOGGERHEAD TURTLE, NOT IN CONTRACT
- (V) SAND PLAY AREA, SEE DETAIL SHEET C7.6.
- (W) SHADE STRUCTURE. "TORNADO" BY SHADE SYSTEMS. NOT IN CONTRACT.
- (X) TURTLE TRACKS, SEE DETAIL SHEET C7.3.
- (Y) OBSERVATION DECK, SEE SPECIFICATIONS, ALT.#4
- (Z) DECK STRUCTURES, NOT IN CONTRACT
- (AA) ADIRONDACK CHAIR, NOT IN CONTRACT
- (BB) SMALL ARBOR, NOT IN CONTRACT.
- (CC) FITNESS STATION: SIT UP LOG, NOT IN CONTRACT.
- (DD) CONCRETE CURB AND GUTTER (VERTICAL), SEE DETAIL SHEET C7.1.
- (EE) PEEK-A-BOO WALL, SEE DETAIL SHEET C7.5.
- (FF) COLORFUL POLES, NOT IN CONTRACT
- (GG) PAVED PLAY STRIPING, SEE DETAIL SHEET C7.4.
- (HH) HOLEY WALL, SEE DETAIL SHEET C7.4.
- (II) FITNESS STATION SIGNAGE, NOT IN CONTRACT
- (JJ) DRIVEWAY APRON, SEE SHEET C7.01.
- (KK) FITNESS STATION: CHIN-UP BARS, SEE DETAIL SHEET C7.5.
- (LL) BICYCLE RACKS, NOT IN CONTRACT
- (MM) PAVILION, SEE ARCHITECTURAL PLANS, ALT.#1
- (NN) TRASH RECEPTACLE, MOUNT TO 2'X2' CONCRETE PAD, NOT IN CONTRACT
- (OO) CONCRETE BORDER (FLUSH), SEE DETAIL SHEET C7.1.
- (PP) PARKING LOT/EVENT PLAZA SURFACE TRANSITION, SEE DETAIL SHEET C7.1.
- (QQ) CONCRETE WHEEL STOP, SEE DETAIL SHEET C7.3.
- (RR) LIGHT-DUTY PAVEMENT, SEE DETAIL SHEET C7.1.
- (SS) CURB RAMP RETROFIT, SEE DETAIL SHEET C7.1.
- (TT) STANDARD SPLIT RAIL FENCE, SEE DETAIL SHEET C7.5.
- (UU) DUMPSTER PAD, SEE DETAIL SHEET C7.1.
- (VV) CONCRETE CURB & GUTTER WPEDOWN SECTION, SEE DETAIL SHEET C7.1.
- (WW) DUMPSTER PAD WITH WOOD ENCLOSURE, SEE DETAIL SHEET C7.1.
- (XX) PICKET FENCE, SEE DETAIL SHEET C7.5.
- (YY) CHEEK WALL, SEE DETAIL SHEET C7.4.

PLAYGROUND NOTES

* GRADING CONTRACTOR SHALL GRADE TO SUBGRADE TO A DEPTH OF 13-IN BELOW FINISHED GRADE UNDERNEATH POURED IN PLACE SURFACING AND 13-IN BELOW FINISH GRADE UNDERNEATH THE ENGINEERED WOOD FIBAR IN THE PLAY AREA LOCATIONS. SEE GRADING PLANS FOR FINISH GRADE. PLAYGROUND SURFACING, AGGREGATE, AND GEOTEXTILE FABRIC IS BY OWNER'S PLAYGROUND INSTALLER. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PLAYGROUND INSTALLER PRIOR TO CONSTRUCTION. (ALL WORK SHOWN IN THE ENLARGED DETAILS ON SHEET C1.2 AND PLAYGROUND SURFACING DETAILS ON SHEET C7.3 BESIDES PLAYGROUND SURFACING, EQUIPMENT, AGGREGATE BASE, AND GEOTEXTILE FABRIC IS IN BASE BID)

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF NAGS HEAD AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE TOWN ENGINEER IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL INTERIOR PARKING STALLS SHALL BE A MINIMUM OF 10'X20' (WITH EXCEPTION TO THE ACCESSIBLE SPACES) AND EXTERIOR SPACES SHALL BE A MINIMUM OF 10'X18'.
7. (AC) DENOTES ACCESSIBLE PARKING SPACE.
8. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
9. WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN 3 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, OR PARKED VEHICLE.
10. MINIMUM CORNER CLEARANCE FROM CURB LINE OF INTERSECTION STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.
11. RADIUS AT FACE OF CURB IS 4' UNLESS OTHERWISE NOTED.
12. CONCRETE SCORE JOINT PATTERN SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT AND APPROVED PRIOR TO CONCRETE INSTALLATION.
13. SIDEWALK STAKING SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

TRAFFIC CONTROL KEY NOTES

1. ACCESSIBLE PARKING & SIGNAGE, SEE DETAIL SHEET 7.1
2. STANDARD CROSSWALK, SEE TRAFFIC CONTROL NOTES THIS SHEET.
3. STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
4. SOLID WHITE MARKING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
5. DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
6. TRAFFIC CONTROL SIGNAGE, SEE DETAIL SHEET C7.1.

TRAFFIC CONTROL NOTES

1. ALL ON-SITE SIGNAGE SHALL USE PRISMATIC SHEETING AND SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	–	4-IN	WHT.
CROSSWALK	1205.07(STANDARD)	8-IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
SOLID	1205.01	4-IN	WHT.
STOP BAR	SEE DETAIL SHEET C 07.01		

4. ALL PAVEMENT MARKINGS SHALL BE ALKYD-RESIN TYPE PAINT, EXCEPT FOR FIRE LANE MARKINGS WHICH SHALL BE THERMOPLASTIC TYPE PAINT. BID SHALL INCLUDE ALLOWANCE OF 300 LF. COORDINATE WITH TOWN AND FIRE MARSHAL FOR LOCATIONS.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY TOWN OF NAGS HEAD PRIOR TO INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE. SEE DETAIL SHEET C7.1.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NC GRID(NAD83)

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 · www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 699 6-2-16 ZACHARY R. PIERCE

PHASE 1

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
#1	6-21-2016	ADDENDUM #1

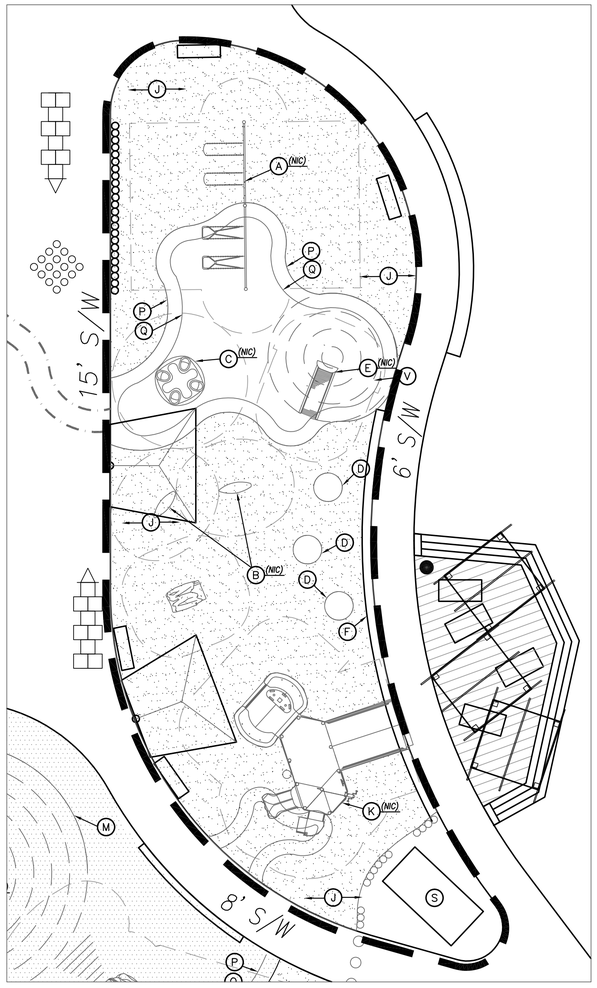
DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE: .

STAKING AND PAVEMENT MARKING PLAN

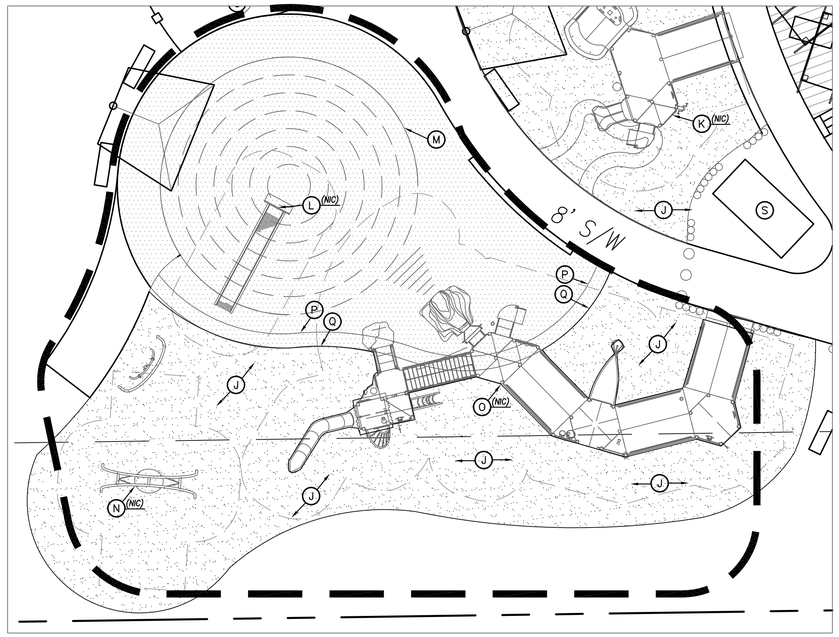
C1.1

KEY NOTES

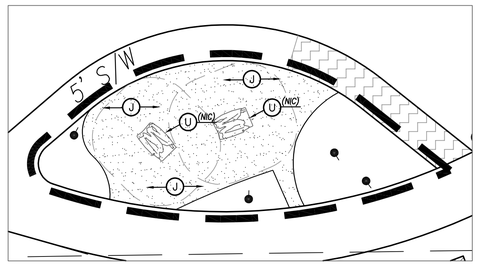
- (A) 8' HIGH TWO BAY A-FRAME SWING SET WITH 2 TODDLER BUCKET SWINGS AND TWO MOLDED HARNESS SWINGS. LANDSCAPE STRUCTURES #177350, NOT IN CONTRACT
- (B) WOBBLE POD, NOT IN CONTRACT
- (C) MOLDED SPINNER, LANDSCAPE STRUCTURES #173591, NOT IN CONTRACT
- (D) PLAY DUNE #4. 4' DIA. X 2' HIGH POURED IN PLACE MOUND. SEE DETAIL SHEET C7.3
- (E) ON-GRADE ROLLER SLIDE, NOT IN CONTRACT
- (F) CONCRETE SEAT/RETAINING WALL, SEE DETAIL C07.04
- (G) IN-GROUND MOUNT KETTLE DRUM, LANDSCAPE STRUCTURES #214445, NOT IN CONTRACT
- (H) IN-GROUND MOUNT KUNDU DRUM, LANDSCAPE STRUCTURES #214444, NOT IN CONTRACT
- (I) IN-GROUND MOUNT GOBLET DRUM, LANDSCAPE STRUCTURES #214443, NOT IN CONTRACT
- (J) ENGINEERED WOOD FIBAR SAFETY SURFACING, SEE DETAIL SHEET C7.3
- (K) 2-5 PLAY STRUCTURE, LANDSCAPE STRUCTURES #93628, NOT IN CONTRACT
- (L) ROLLER SLIDE, NOT IN CONTRACT
- (M) PLAY DUNE #2, SEE DETAIL SHEET C7.3
- (N) OODLE SWING, LSI #173592, NOT IN CONTRACT
- (O) 5-12 PLAY EQUIPMENT, NOT IN CONTRACT
- (P) POURED IN PLACE SAFETY SURFACING, COLOR: AQUA BLUE, SEE DETAIL SHEET C7.3
- (Q) POURED IN PLACE SAFETY SURFACING, COLOR: LIGHT BLUE, SEE DETAIL SHEET C7.3
- (R) LIBERTY SWING, NOT IN CONTRACT
- (S) SEATING SCULPTURE (LUNGO MARE), SEE SPECIFICATIONS.
- (T) POURED IN PLACE SAFETY SURFACING, COLOR: RED. SEE DETAIL SHEET C7.3.
- (U) LOG TUNNEL, LSI #173594, NOT IN CONTRACT
- (V) PLAY DUNE #3, SEE DETAIL SHEET C7.3



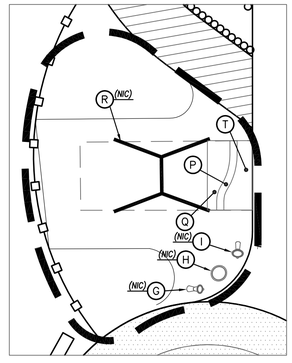
2-5 PLAY EQUIPMENT ENLARGEMENT
1"=10'



5-12 PLAY EQUIPMENT ENLARGEMENT
1"=10'



LOG TUNNEL AREA ENLARGEMENT
1"=10'



ACCESSIBLE SWING AREA ENLARGEMENT
1"=10'

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 - www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 6-2-16 MARY R. PIERCE

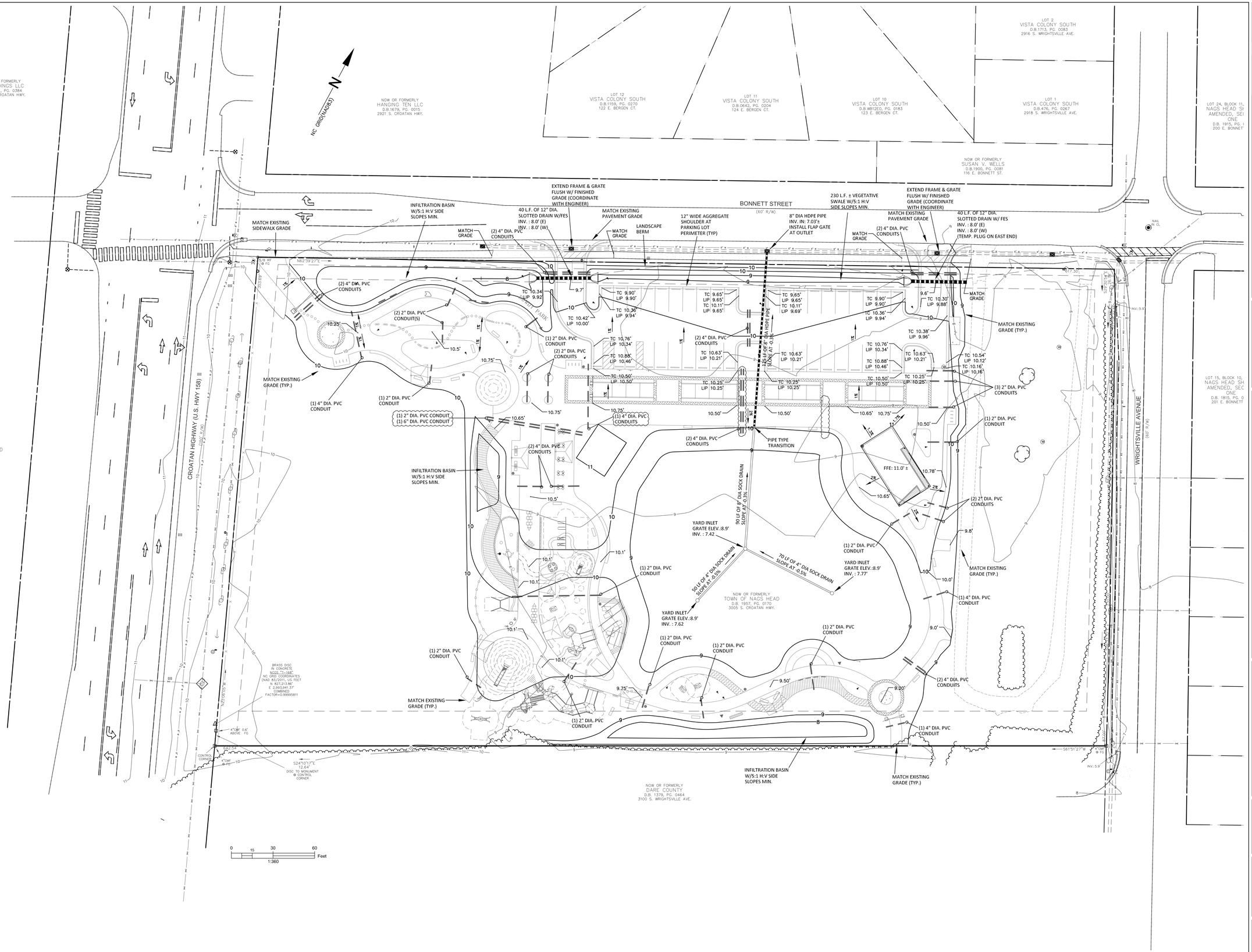
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1		

DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE:

STAKING ENLARGEMENTS

C1.2



THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 030406 ENGINEER DAVID M. RYAN
6/21/2016

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 S. CROATAN HIGHWAY

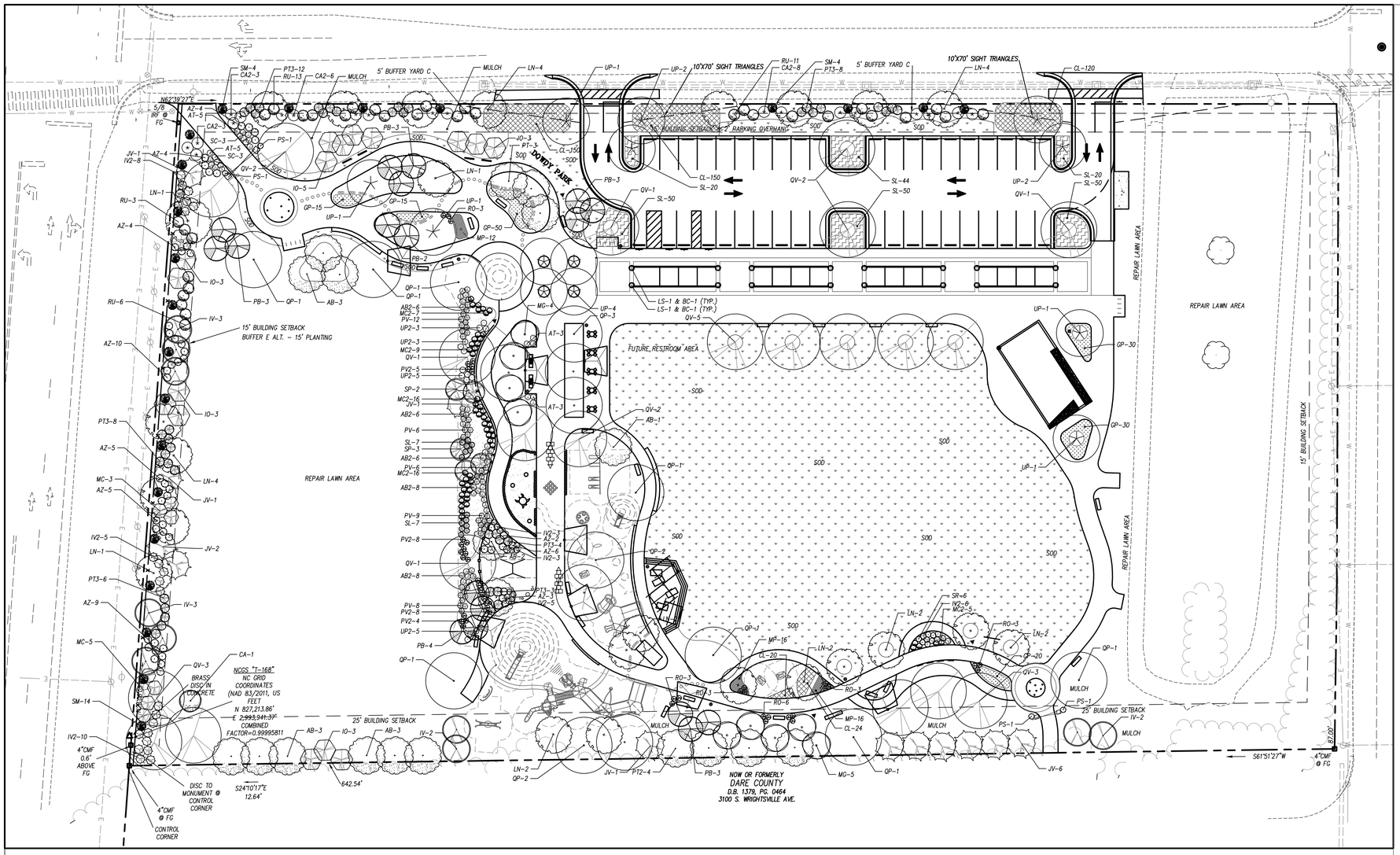
REVISIONS

NO.	DATE	DESCRIPTION
1	6-2-16	RELEASED FOR BID
2	6-21-16	ADDENDUM #1 (REVD CONDUITS IN EVENT PLAZA

DESIGNED BY: AMR/BH
DRAWN BY: HBR
DATE: APRIL-2016
PROJECT NO: 16-115
FILE: .

GRADING, DRAINAGE AND CONDUIT PLAN

C3.0



PLANT SCHEDULE

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS
TREES				
AB	12	TRIDENT MAPLE *Acer buegerianum*	6'-8' Ht 1 1/2" Cal	Straight Trunk, Full Matched Specimens
CA	1	BLUE CYPRESS *Cupressus arizonica 'Blue Sapphire'*	6'-8' Ht B&B 2" Cal	Full Plants Matched Specimens
IO	17	AMERICAN HOLLY *Ilex opaca 'Tinga'*	5'-6' Ht B&B/Cont	Full Plants Matched Specimens
IV	10	YAUPON HOLLY *Ilex vomitoria*	5'-6' Ht B&B/Cont	Full Plants Matching 3' O.C.
JV	12	EASTERN RED CEDAR *Juniperus virginiana var. silicola*	5'-6' Ht. Cont.	Straight Trunk, Full Matched Specimens
LN	23	CRAPE MYRTLE 'NATCHEZ' *Lagerstroemia indica 'Natchez'*	6'-8' Ht 1 1/2" Cal	3-5 Trunks Matched Specimens
MG	9	SWEETBAY MAGNOLIA *Magnolia virginiana*	6'-8' Ht 1 1/2" Cal	Straight Trunk Matched Specimens
PB	18	REDBAY *Persea borbonia*	6'-8' Ht 1 1/2" Cal	Straight Trunk Matched Specimens
PT	3	LOBLOLLY PINE *Pinus taeda*	4'-8' Ht 1 1/2" Cal	Straight Trunk Matched Specimens
PT2	4	BLACKJACK PINE *Pinus thunbergii*	4'-5" Ht 1 1/2" Cal	Straight Trunk Matched Specimens
QP	16	WILLOW OAK *Quercus phellos*	6'-8" Ht B&B 1 1/2" Cal	Straight Trunk, Full Matched Specimens
QV	21	LIVE OAK *Quercus virginiana*	6'-8' Ht B&B 1 1/2" Cal	Straight Trunk, Full Matched Specimens
UP	13	ALLEE ELM *Ulmus parvifolia 'Allee'*	6'-8' Ht 1 1/2" Cal	Straight Trunk, Full Matched Specimens
SHRUBS				
AZ	52	ENCORE AZALEA *Azalea x Autumn Royalty*	18"-24" Ht 1-Gal Cont	Full Plants Matching 24" O.C.
CA2	20	AMERICAN BEAUTY BERRY *Callicarpa americana*	18"-24" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
IV2	40	DWARF YAUPON HOLLY *Ilex vomitoria 'Nana'*	18"-24" Ht 3-Gal Cont	Full Plants Matching 3' O.C.
MC	8	SOUTHERN WAX MYRTLE *Myrica cerifera*	24"-36" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
PT3	41	WHEELER'S DWARF PITTOSPORUM *Pittosporum tobira "Wheeler's Dwarf"*	24"-36" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
RU	33	INDIAN HAWTHORN *Raphiolepsis umbellata 'Majestic Beauty'*	24"-36" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
RO	18	ROSEMARY *Rosmary officinalis 'Arp'*	18"-24" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
SM	22	DWARF PALMETTO *Sabal minor*	24"-36" Ht 3-Gal Cont	Full Plants Matching 5' O.C.
ORNAMENTAL GRASSES				
AB2	36	AMERICAN BEACHGRASS *Ammophila brevilgulata*	1-Gal Cont	Full Plants Matching 5' O.C.
MC2	53	PINK MUHLY GRASS *Muhlenbergia capillaris 'sericea*	3-Gal Cont	Full Plants Matching 5' O.C.
PV	41	NORTHWIND SWITCH GRASS *Panicum virgatum 'Northwind'*	1-Gal Cont	Full Plants Matching 3' O.C.
PV2	25	SHENANDOAH SWITCH GRASS *Panicum virgatum 'Shenandoah'*	1-Gal Cont	Full Plants Matching 5' O.C.
SL	248	SEASIDE LITTLE BLUESTEM *Schizachyrium littorale*	1-Gal Cont	Full Plants Matching 5' O.C.
UP2	16	SEA OATS *Uniola paniculata*	1-Gal Cont	Full Plants Matching 5' O.C.
VINES				
BC	16	CROSSVINE *Bignonia capreolata*	1-Gal Cont	Full Plants Matching 5' O.C.
LS	16	CORAL HONEYSUCKLE *Lonicera sempervirens*	1-Gal Cont	Full Plants Matching 5' O.C.
PS	4	PASSIONFLOWER *Passiflora incarnata*	1-Gal Cont	Full Plants Matching 5' O.C.
PERENNIALS AND GROUNDCOVERS				
AT	18	BUTTERFLY WEED *Asclepias tuberosa*	3-Gal Cont	Full Plants Matching 24" O.C.
CL	464	COREOPSIS *Coreopsis lanceolata*	3-Gal Cont	Full Plants Matching 24" O.C.
GP	169	BLANKET FLOWER *Gaillardia pulchella*	1-Gal Cont	Full Plants Matching 24" O.C.
MP	44	HORSEMINT *Monarda punctata*	1-Gal Cont	Full Plants Matching 24" O.C.
SC	6	LAVENDER COTTON *Santolina chamaecyparissus*	1-Gal Cont	Full Plants Matching 24" O.C.
SR	6	GOLDENROD *Solidago rugosa 'Fireworks'*	1-Gal Cont	Full Plants Matching 24" O.C.
SOD	TBD	TURF GRASS *T-419 Hybrid Bermudagrass*		

GRAPHIC SYMBOLS SUPERCEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR.
FOR NOTES AND DETAILS, SEE DETAIL SHEET C7.7.

LANDSCAPE NOTES

1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
4. ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4 1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
5. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED WITH 3" (AFTER SETTLING) OF BROWN DYED TRIPLE SHREDDED HARDWOOD MULCH. THE REMOTE BUFFER PLANTINGS SHALL BE MULCHED WITH 3" (AFTER SETTLING) TRIPLE SHREDDED HARDWOOD MULCH. DO NOT USE "TOWN" MULCH.
6. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
8. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
9. LAWN AREAS NOT SHOWN ON THE PLANS TO BE SODDED OR MULCHED. LAWN AREAS SHALL BE SEEDED WITH BERMUDA GRASS 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) WHICH SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
    - 10.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION
    - 10.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
    - 10.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
    - 10.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
11. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
12. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN ARE DECLARED SUBSTANTIALLY COMPLETE. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
13. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM ALL SODDED AND SEEDED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND RESEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION.
14. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
15. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING, IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
16. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
17. ALL SOD SHALL BE TIFWAY 419 BERMUDA GRASS.
18. CONTRACTOR SHALL STABILIZE AND REPAIR ALL DISTURBED AREAS.

SEEDBED PREPARATION

1. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF TOPSOIL. REFER TO SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
2. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. CONSTRUCTION EQUIPMENT & TRAFFIC SHALL BE REMOVED PRIOR TO SEEDING.
3. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.

CONTRACTOR RESPONSIBILITY NOTES:

1. THE MAIN PROJECT BIDDING PACKAGE WILL NOT INCLUDE LANDSCAPING OR IRRIGATION. THE TOTAL PROJECT LANDSCAPE SHEETS HAVE BEEN INCLUDED FOR COORDINATION PURPOSES.
2. THE GENERAL CONTRACTOR TO INCLUDE ALL TEMPORARY SEEDING, NECESSARY GRADING, FINAL GRADING, TOPSOIL AMENDMENTS AND ADEQUATE TOPSOIL AS NEEDED FOR THE LANDSCAPE CONTRACTOR TO COMPLETE THE SCOPE OF LANDSCAPING WHEN AWARDED.
3. THE FOLLOWING SHEETS HAVE BEEN INCLUDED FOR REFERENCE ONLY: C5.1, C5.2 AND C7.7
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FUTURE LANDSCAPE CONTRACTOR.
5. TOPSOIL SHALL BE ACCEPTED BY THE OWNER BEFORE THE LANDSCAPE CONTRACTOR BEGINS WORK. GENERAL CONTRACTOR SHALL CONTACT THE OWNER FOR TOPSOIL INSPECTION.
6. ALL CONTRACTORS SHALL REFER TO THE EROSION CONTROL CONSTRUCTION SEQUENCE AND ADDITIONAL INFORMATION ON SHEETS C2.0.

LANDSCAPE CALCULATIONS

PARKING AREA PLANTING REQUIREMENTS

INTERIOR PARKING PLANTING AREA REQUIRED: = (10%)7,700 SF = 770 SF
INTERIOR PARKING PLANTING AREA PROVIDED: = 1,400 SF
LANDSCAPE ISLANDS MUST HAVE A PERMANENT, NON-EROSIVE GROUNDCOVER

BUFFER YARD REQUIREMENTS

CROATAN HIGHWAY (WEST) = 354 LF

BUFFER YARD TYPE E REQUIRED: = 36 TREES, 142 SHRUBS, 354 GRASSES OR HERB.
15' UNDISTURBED FROM R/W, 10 BUFFER
2 ROWS 4' APART
5 TREES, 20 SHRUBS, 50 GRASSES OR HERBACEOUS PER 100 LF (DOUBLE FOR 2 ROWS)
50% EVERGREEN
5' WHEN INSTALLED, 8' AT MATURITY
MAY BE COMBINED WITH BERMS

BONNETT STREET (NORTH) = 618 LF (-SIDEWALK, ENTRY DRIVES, PHASE 2) = 474 LF

5' BUFFER YARD TYPE C REQUIRED: = 24 TREES, 95 SHRUBS, 237 GRASSES OR HERB.
5 TREES/20 SHRUBS/50 GRASSES OR HERBACEOUS PER 100 LF
50% EVERGREEN
5' WHEN INSTALLED
MAY BE COMBINED WITH BERMS

WRIGHTSVILLE AVENUE (EAST) = 344 LF

PHASE 2

OPEN SPACE LANDSCAPING REQUIREMENTS

THE TOWN OF NAGS HEAD 1961
TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH DESIGN
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA LANDSCAPE ARCHITECT 699 REGISTERED GARY R. PIERCE 6-2-2016

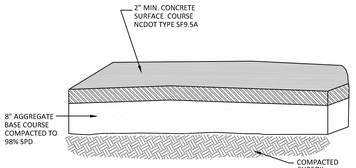
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS			
NO.	DATE	DESCRIPTION	
1			

DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE: .

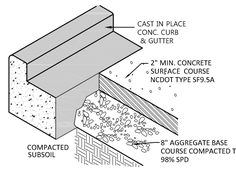
LANDSCAPE PLAN

C5.1



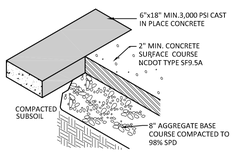
LIGHT-DUTY PAVEMENT DETAIL

NOT TO SCALE — SECTION VIEW



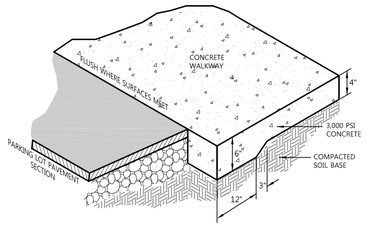
CURB & GUTTER (VERTICAL)

NOT TO SCALE — ISOMETRIC VIEW



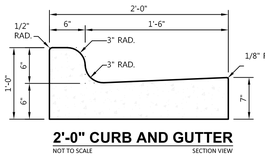
CONCRETE BORDER (FLUSH)

NOT TO SCALE — ISOMETRIC VIEW



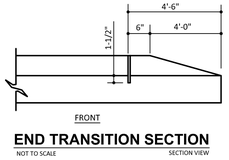
PARKING LOT/EVENT PLAZA SURFACE TRANSITION

NOT TO SCALE — ISOMETRIC VIEW



2'-0" CURB AND GUTTER

NOT TO SCALE — SECTION VIEW

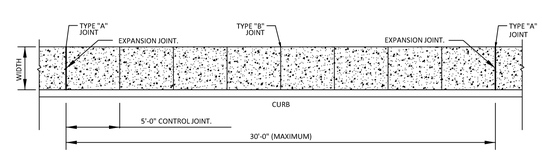


END TRANSITION SECTION

NOT TO SCALE — SECTION VIEW

CONCRETE CURB & GUTTER DETAIL

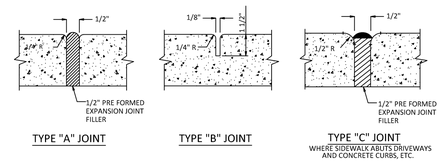
NOT TO SCALE



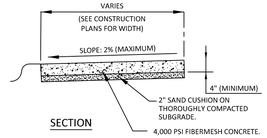
PLAN

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	30' MAX. CENTER TO CENTER ON SIDEWALKS, P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS, DRIVEWAYS, AND SIMILAR STRUCTURES.
"B"	5' CENTER TO CENTER ON SIDEWALKS.

TABLE OF CONCRETE TYPE		
"D"	LOCATION	REINFORCEMENT
8"	DUMPSTER PAD & APRON	#4 BARS @ 12" OC EW
6"	MECHANICAL EQUIPMENT PADS & APRONS	#4 BARS @ 12" OC EW
4"	SIDEWALK	6x6 W1.4xW1.4



TYPE "A" JOINT — TYPE "B" JOINT — TYPE "C" JOINT
WHERE SIDEWALK ABUTS DRIVEWAYS AND CONCRETE CURBS, ETC.

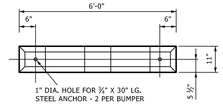


SECTION

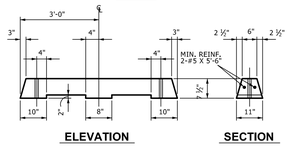
CONCRETE SIDEWALK INSTALLATION DETAILS

NOT TO SCALE — SECTION, ELEVATION, PLAN

NOTES :
1. SIDEWALKS SHALL HAVE A 4" MINIMUM THICKNESS
2. ALL SIDEWALKS WILL BE CONSTRUCTED A MINIMUM OF 5 FEET WIDE.
3. ALL CONCRETE USED FOR SIDEWALKS SHALL BE A MINIMUM OF 4,000 PSI FIBERMESH DESIGN MIX
4. SIDEWALKS SHALL FORM A CONTINUOUS PATH TO MAIN ENTRANCES OF FACILITIES.



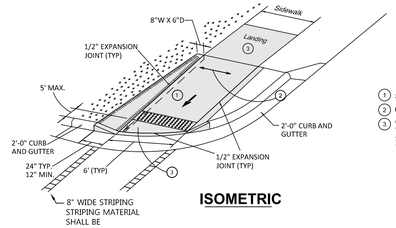
PLAN



ELEVATION — SECTION

CONCRETE WHEEL STOP

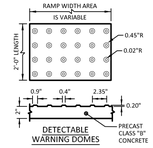
NOT TO SCALE — SECTION, ELEVATION, PLAN



ISOMETRIC

CONCRETE DEPTH	
RAMP / FLARES	6"
LANDING	4"

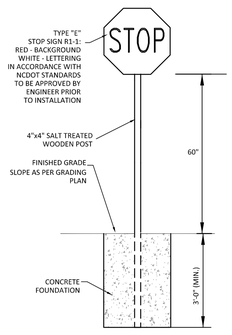
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



ALTERNATE MATERIAL MAY BE SUBSTITUTED, PROVIDED THE PRODUCT IS ON THE TOWN'S APPROVED MANUFACTURER LIST AND THE MANUFACTURER'S PRODUCT AND INSTALLATION SPECIFICATIONS ARE FOLLOWED.

HANDICAP SIGN DETAIL

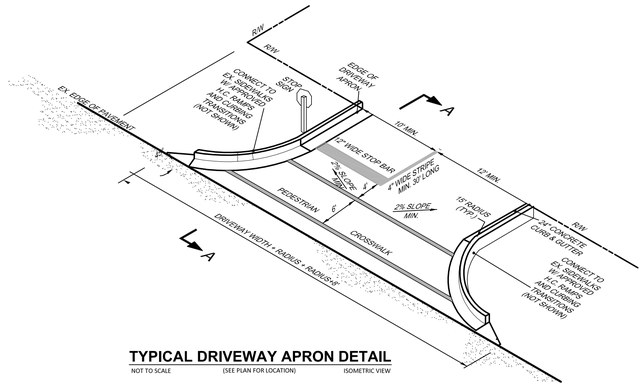
NOT TO SCALE — (SEE PLAN FOR LOCATION) — SECTION VIEW



STOP SIGN DETAIL

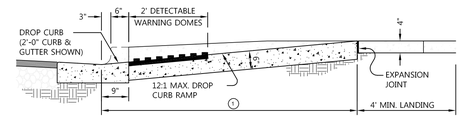
NOT TO SCALE — (SEE PLAN FOR LOCATION) — SECTION VIEW

NOTE:
SIGN SHALL CONFORM W/ MUTCD BY THE FEDERAL HIGHWAY ADMINISTRATION



TYPICAL DRIVEWAY APRON DETAIL

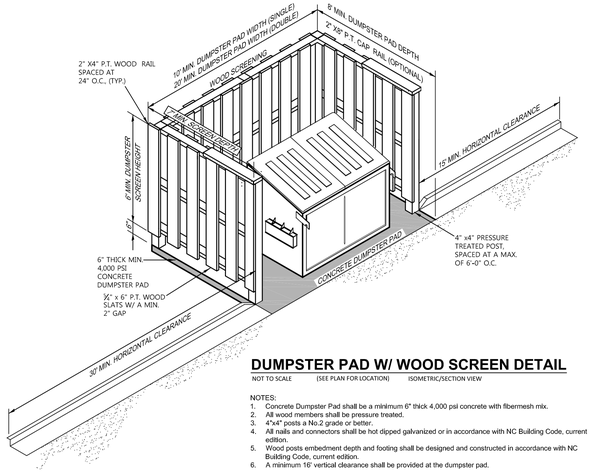
NOT TO SCALE — (SEE PLAN FOR LOCATION) — ISOMETRIC VIEW



SECTION

CURB RAMP RETROFIT DETAIL

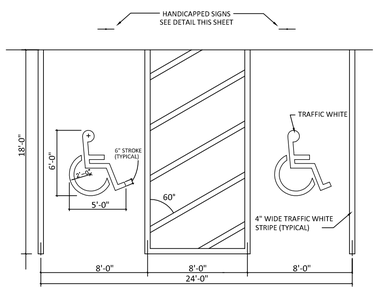
NOT TO SCALE — (SEE PLAN FOR LOCATION) — ISOMETRIC/SECTION VIEW



DUMPSTER PAD W/ WOOD SCREEN DETAIL

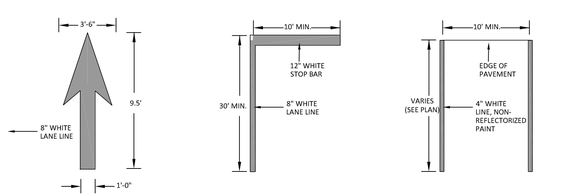
NOT TO SCALE — (SEE PLAN FOR LOCATION) — ISOMETRIC/SECTION VIEW

NOTES:
1. Concrete Dumpster Pad shall be a minimum 6" thick 4,000 psi concrete with fibermesh mix.
2. All wood members shall be pressure treated.
3. 4"x4" posts a No.2 grade or better.
4. All nails and connectors shall be hot dipped galvanized or in accordance with NC Building Code, current edition.
5. Wood posts embedment depth and footing shall be designed and constructed in accordance with NC Building Code, current edition.
6. A minimum 16' vertical clearance shall be provided at the dumpster pad.



HANDICAP STALL DETAIL

NOT TO SCALE — (SEE PLAN FOR LOCATION) — PLAN VIEW



TYPE 1 THRU ARROW — STOP BAR W/ LANE LINE — PARKING STALL STRIPING

TYPICAL PAVEMENT STRIPING DETAIL

NOT TO SCALE — (SEE PLAN FOR LOCATION) — PLAN VIEW

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252,441,1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 030406 ENGINEER DAVID M. RYAN
6/2/2016

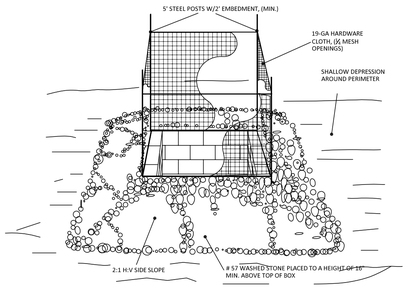
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 S. CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-3-16	RELEASED FOR BID

DESIGNED BY:	AMR/BH
DRAWN BY:	HBR
DATE:	APRIL-2016
PROJECT NO:	16-115
FILE:	.

SITE DETAILS

C7.1



CONSTRUCTION SPECIFICATIONS

1. UNIFORMLY GRADE A SHALLOW DEPRESSION AROUND INLET.
2. DRIVE 5' STEEL POSTS 2-FT INTO GROUND SURROUNDING INLET, SPACE POSTS EVENLY AROUND INLET, MAX. 4' SPACING.
3. SURROUND POSTS WWIREMESH HARDWARE CLOTH. SECURE WIRE MESH TO THE STEEL POSTS AT TOP,MIDDLE & BOTTOM. PLACE A 2' FLAP OF WIRE UNDER GRAVEL FOR ANCHORING.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE TO A HEIGHT OF 16' AROUND BARRIER AND SMOOTH TO EVEN GRADE.
5. ONCE CONTRIBUTING DRAINAGE AREAS IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, & ESTABLISH FINAL GRADE.
6. COMPACT THE AREA PROPERLY & STABILIZE WIGROUNDCOVER.

DROP INLET BARRIER INSTALLATION

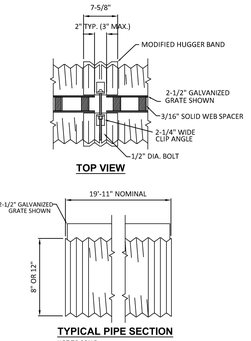
NOT TO SCALE LOCATIONS AS NOTED ON PLAN ISOMETRIC VIEW

STRAW MULCHING:
1. FOR AREAS OF SITE WITH LESS THAN 30% SLOPE; 2-3 BALES OF STRAW EQUALS 2-INCHES OF STRAW MULCH OVER 1000 SQARE FEET.
2. MULCH SHALL BE WEED FREE STRAW.

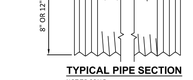
TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 7 CALENDAR DAYS, (SEE TEMPORARY SEEDING TABLE FOR APPLICABILITY), WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.

LAND DISTURBANCE & STABILIZATION DETAIL

NOT TO SCALE



TOP VIEW



TYPICAL PIPE SECTION

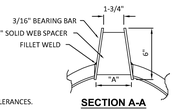
NOT TO SCALE

SLOTTED DRAIN NOTES

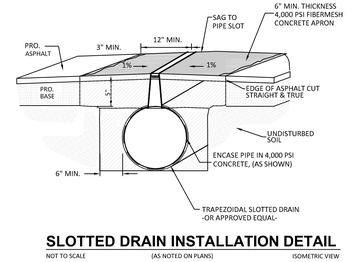
1. GRATING DEPTH IS 6".
2. VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
3. FOR 6" TRAPEZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" BAND ANGLE.
4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

SLOTTED DRAIN DETAIL

NOT TO SCALE

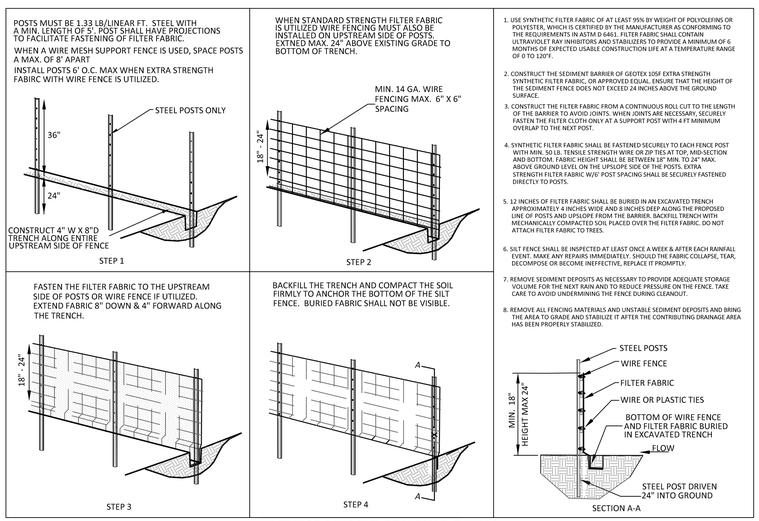


SECTION A-A
STANDARD DETAIL



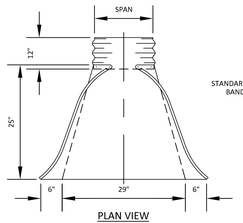
SLOTTED DRAIN INSTALLATION DETAIL

NOT TO SCALE (AS NOTED ON PLANS) ISOMETRIC VIEW

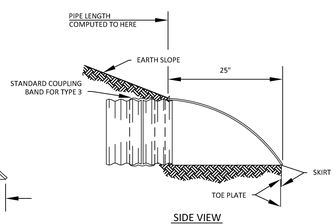


TYPICAL SILT FENCING DETAIL

NOT TO SCALE LOCATION AS NOTED ON PLAN



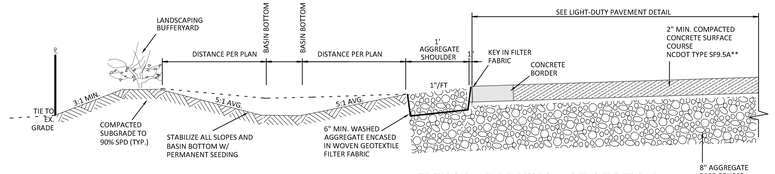
PLAN VIEW



SIDE VIEW

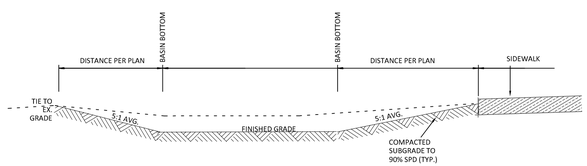
FLARED END SECTION DETAIL

NOT TO SCALE



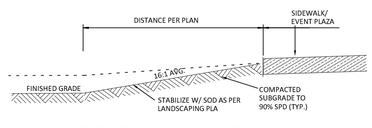
TYPICAL PARKING LOT SECTION

NOT TO SCALE SECTION VIEW



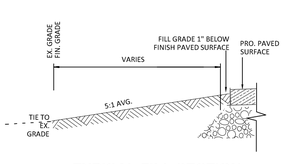
TYPICAL INFILTRATION BASIN SECTION

NOT TO SCALE SECTION VIEW



EVENT PLAZA FILL SECTION

NOT TO SCALE SECTION VIEW



TYPICAL FILL SECTION

NOT TO SCALE SECTION VIEW

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252,441,1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 030406 ENGINEER DAVID M. RYAN
6/2/2016

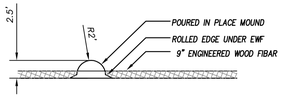
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 S. CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-2-16	RELEASED FOR BID

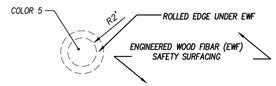
DESIGNED BY:	AMR/BH
DRAWN BY:	HBR
DATE:	APRIL-2016
PROJECT NO:	16-115
FILE:	.

SITE DETAILS

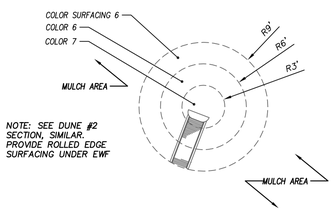
C7.2



SECTION DUNE #4



POURED IN PLACE DUNE #4



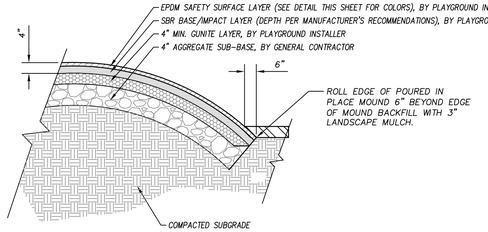
NOTE: SEE DUNE #2 SECTION, SIMILAR. PROVIDE ROLLED EDGE SURFACING UNDER EWF

POURED IN PLACE DUNE #3

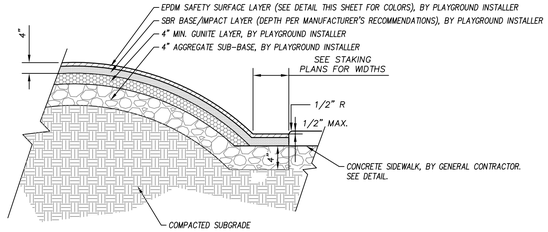
COLOR NOTES:
POURED IN PLACE SURFACING WILL VARY IN COLOR WITH EACH LAYER CREATING A 1' RISE TO LOOK LIKE HORIZONTAL STRIPES

COLOR KEY:
COLOR 1 = TEAL
COLOR 2 = MOSS GREEN
COLOR 3 = ROYAL BLUE
COLOR 4 = LIGHT BLUE
COLOR 5 = GREEN BLEND
COLOR 6 = BROWN BLEND
COLOR 7 = TBD (TO MATCH SLIDE HOOD)

POURED IN PLACE SURFACING COLOR NOTES

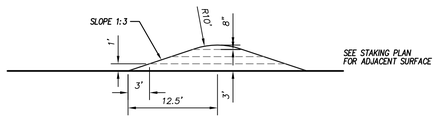


SECTION – POURED IN PLACE MOUND ADJACENT TO SIDEWALK

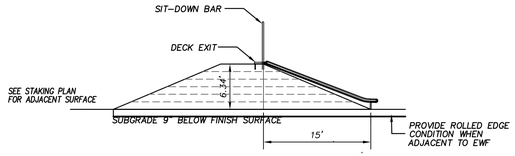


SECTION – POURED IN PLACE MOUND ADJACENT TO SIDEWALK

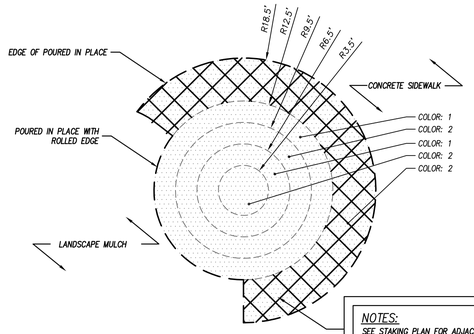
POURED IN PLACE DUNES N.T.S.



DUNE #1 SECTION

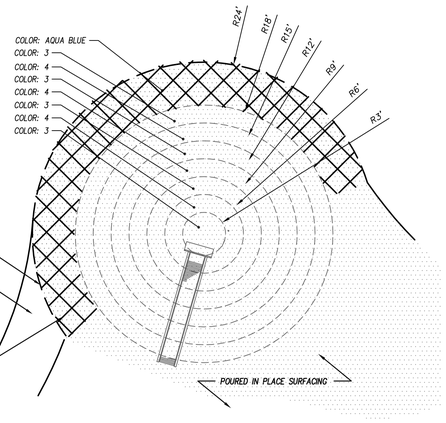


DUNE #2 SECTION



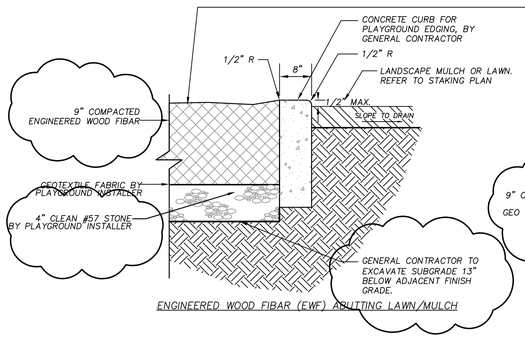
NOTES:
SEE STAKING PLAN FOR ADJACENT SURFACE
1. GENERAL CONTRACTOR TO FORM MOUNDS TO TOP OF STONE LAYER. TOP OF STONE LAYER TO BE 8" BELOW FINISH GRADE OF MOUND.
2. WHERE DUNES ARE ADJACENT TO CONCRETE SIDEWALK, GENERAL CONTRACTOR SHALL LEAVE SUBGRADE UNDER SURFACING AT SIDEWALK 4" BELOW FINISH GRADE OF SIDEWALK.

POURED IN PLACE DUNE #1



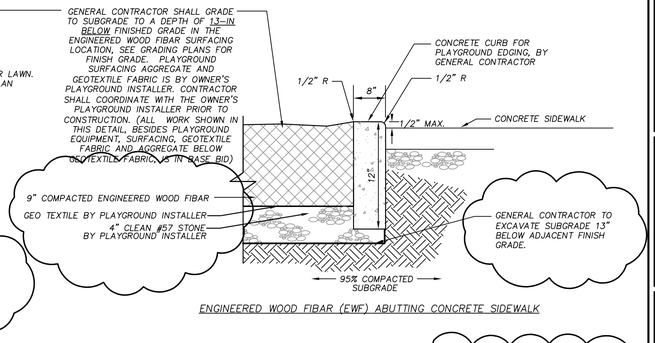
POURED IN PLACE DUNE #2

PLAY AREA SAFETY SURFACES

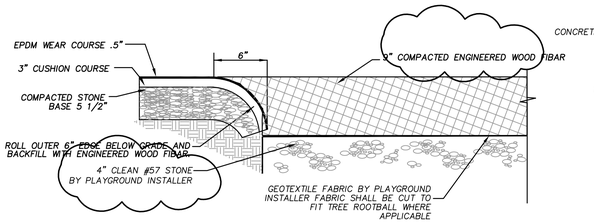


ENGINEERED WOOD FIBAR (EWF) ABUTTING LAWN/MULCH

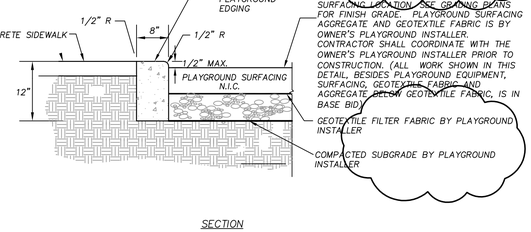
GENERAL CONTRACTOR SHALL GRADE TO SUBGRADE TO A DEPTH OF 13-IN BELOW FINISHED GRADE IN THE ENGINEERED WOOD FIBAR SURFACING LOCATION, SEE GRADING PLANS FOR FINISH GRADE. PLAYGROUND SURFACING AGGREGATE AND GEOTEXTILE FABRIC IS BY OWNER'S PLAYGROUND INSTALLER; CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PLAYGROUND INSTALLER PRIOR TO CONSTRUCTION. (ALL WORK SHOWN IN THIS DETAIL, BESIDES PLAYGROUND EQUIPMENT, SURFACING, GEOTEXTILE FABRIC AND AGGREGATE BELOW GEOTEXTILE FABRIC, IS IN BASE BID)



ENGINEERED WOOD FIBAR (EWF) ABUTTING CONCRETE SIDEWALK



POURED IN PLACE SURFACING WITH ROLLED EDGE

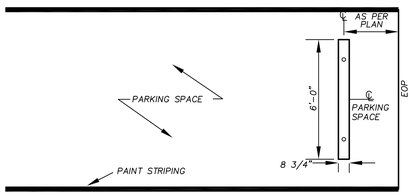


SECTION

CONCRETE PLAYGROUND EDGING AT POURED IN PLACE SURFACING

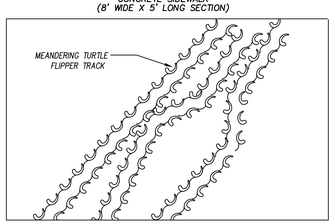
PRE-CAST CONCRETE WHEELSTOP N.T.S.

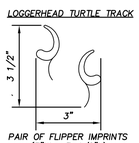
*SEE DETAIL SHEET C7.1 FOR CONCRETE WHEEL STOP DIMENSIONS AND SECTION.



90° PARKING SPACE PLAN VIEW

TURTLE TRACKS N.T.S.

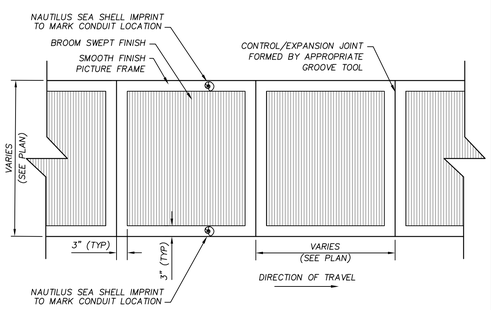




NOTES

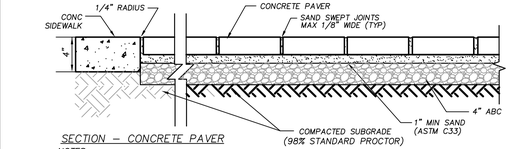
1. CONCRETE SIDEWALK BETWEEN SAND PLAY AREA AND 2-5 PLAY AREA SHALL BE STAMPED WITH CUSTOM STAMP DEPICTING BABY LOGGERHEAD TURTLE FINS.
2. CONTRACTOR SHALL PROVIDE 3-5 "TRACKS" ACROSS SIDEWALK IN TWO LOCATIONS. SEE STAKING PLAN.
3. TRACKS MAY MEANDER AND CROSS AS WOULD BE FOUND IN NATURE.
4. STAMP SHALL REPEAT AN APOSTROPHE SHAPE FOR FIN WITH ARC TAIL DRAG MARK. EACH APOSTROPHE AND ARC SHALL BE REVERSE MIRRORED AND OFFSET AS SHOWN.
5. STAMP AND SURFACE PREP SHALL BE AS RECOMMENDED BY MANUFACTURER FOR CLEAN CLEAR APPLICATION.
6. OVERALL WIDTH OF BABY TURTLE TRACK SHALL BE 3".
7. OVERALL LENGTH OF TURTLE TRACK SHALL BE 3 1/2 ".
8. CUSTOM STAMP MAY BE ROLLER STYLE TO ENABLE NATURAL MEANDER OF TRACK ACROSS SIDEWALK.
9. CONTRACTOR SHALL PROVIDE 2' X 2' MOCK UP PANEL FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
10. ENSURE UNIFORM FINISH WITH NO DEFECTS ON CONCRETE ADJACENT TO TRACK.

PICTURE FRAME FINISH FOR CONCRETE SIDEWALK – ALT. #5 N.T.S.



NOTES:

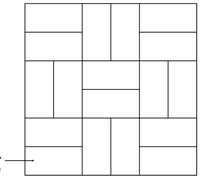
1. SURFACE SHALL BE BROOM FINISHED PERPENDICULAR TO TRAFFIC FLOW.
2. ALL EDGES AND CONTROL/EXPANSION JOINTS SHALL BE FORMED WITH APPROPRIATE GROOVER OR EDGER TOOL CREATING A SMOOTH FINISH PICTURE FRAME.
3. SIDEWALK SHALL BE CONSTRUCTED PER CONCRETE SIDEWALK DETAIL ON SHEET C7.1.



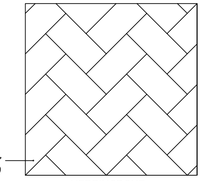
SECTION – CONCRETE PAVER

NOTES:

1. UNIT PAVERS COLOR BLEND SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL.
2. CONTRACTOR SHALL PROVIDE A 2-FT WIDE 4-FT LONG MOCKUP OF PAVER BAND.
3. UNIT PAVERS SHALL BE 4-INCH WIDE X 8-INCH LONG X 2-3/8-INCH TALL HOLLAND STONE CONCRETE UNIT PAVERS AS MANUFACTURED BY BELGARD HARDSCAPES OR APPROVED EQUAL COMPLYING WITH THE QUALITY SPECIFICATIONS FOR SOLID CONCRETE INTERLOCKING PAVING UNITS AS REQUIRED BY ASTM C936.
4. PROVIDE EXPANSION JOINT WHERE UNIT PAVERS ABUT A RIGID OBJECT (CURB AND GUTTER, CONCRETE WALLS, ETC.). SEE CURB AND GUTTER DETAIL FOR EXPANSION JOINT REQUIREMENTS.



BASKET WEAVE BRICK PATTERN



HERRINGBONE BRICK PATTERN

CONCRETE UNIT PAVERS N.T.S.

THE TOWN OF NAGS HEAD N.C. 1961
TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 6-2-16 GARY R. PIERCE

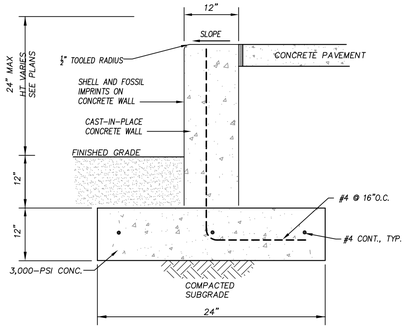
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE:	DESCRIPTION
#1	6-21-2016	ADDENDUM #1

DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE:

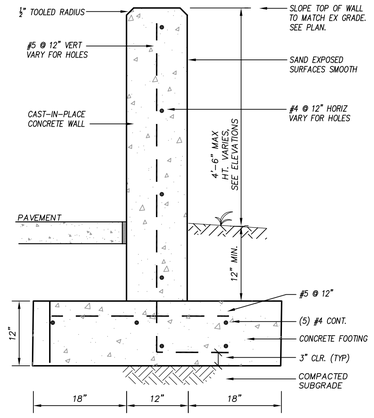
SITE DETAILS

C7.3

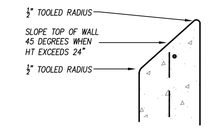


NOTES
1. CONCRETE SHALL BE 3,000-PSI @ 28 DAYS.
2. PROVIDE EXPANSION JOINT BETWEEN CONCRETE PAVING AND WALL.
3. SKATE STOPS (SEE HOLEY WALL DETAILS) SHALL BE 3' O.C. ON TOP OF WALL.
4. SHELL AND FOSSILS SHALL BE A MIXTURE OF A SAND DOLLAR, NAUTILUS, SHARK TOOTH, AND STAR FISH.
5. FINAL SHELL AND FOSSIL PLACEMENT SHALL BE UNDER DIRECTION OF LANDSCAPE ARCHITECT

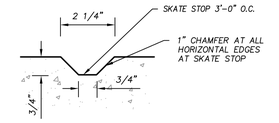
CONCRETE SEAT/RETAINING WALL N.T.S.



CHALK AND HOLEY WALL N.T.S.

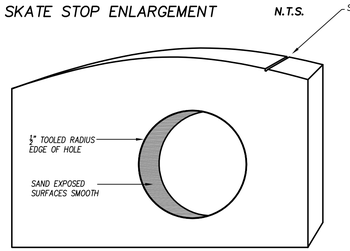


TOP OF WALL ENLARGEMENT (WHEN HT EXCEEDS 24")



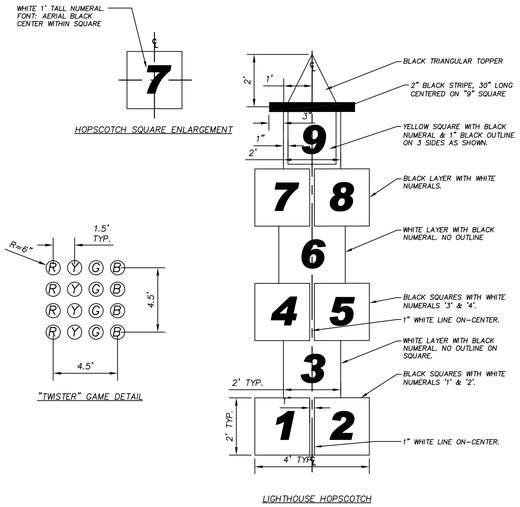
SKATE STOP ENLARGEMENT N.T.S.

NOTES:
1. DETAIL IS FOR LOW, CAST-IN-PLACE SITE WALL
2. ALL CONCRETE TO BE 4,000-PSI AT 28-DAYS.
3. FORM BOARDS TO BE MARKED WITH A CHALK LINE FINISH FOR PROJECT LANDSCAPE ARCHITECT'S INSPECTION. CONTRACTOR TO ADJUST PER FIELD DIRECTION.
4. LANDSCAPE ARCHITECT TO APPROVE OF WALL FORMS PRIOR TO CONCRETE POUR.
5. WALL WAVES TO BE SMOOTH GRADUAL CURVES.
6. TOP OF WALL SHALL BE FLAT WHEN WALL HT IS LESS THAN 24" WITH GRADUAL SMOOTH TRANSITION TO 45 DEGREES WITH WALL HTS GREATER THAN 24".
7. SKATE STOPS (SEE ENLARGEMENT DETAIL) SHALL BE 3' O.C. ON FLAT TOP OF WALL ONLY.
8. ALL EDGES SHALL BE ½" TOOLED RADIUS.
9. ALL SURFACES OF WALL SHALL BE SANDED SMOOTH.
10. CONCRETE COLOR SHALL BE FROM AN INTEGRAL IRON OXIDE PIGMENT ADDED TO THE CONCRETE.



TYPICAL HOLE ENLARGEMENT

CHALK AND HOLEY WALL DETAILS N.T.S.



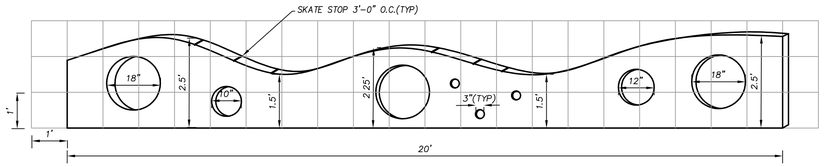
"TWISTER" GAME DETAIL

LIGHTHOUSE HOPSCOTCH

PAINTING NOTES:

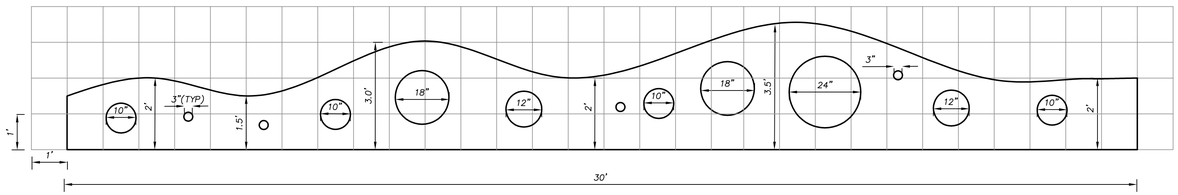
1. MARKING PAINT SHALL BE ACRYKIC OR WATER BASED AND APPROVED BY THE MANUFACTURER FOR APPLICATION ON THE SURFACE COURSE FINISH MATERIAL, SUCH AS "MASONRY" OR "TRAFFIC" PAINT. AESBESTOS, OIL, ALKYD OR SOLVENT VEHICLE TYPE PAINTS ARE PROHIBITED.
2. CONTRACTOR SHALL SPECIAL ORDER PAINT TO ACHIEVE SPECIFIED COLORS. GREEN PAINT SHALL BE KELLY GREEN AND IS AVAILABLE FROM GLIDDEN AND SHERWIN WILLIAMS. ALL PAINT COLORS SHALL BE APPROVED BY OWNER PRIOR TO ORDER AND APPLICATION.
3. PAINT SHALL BE APPLIED PER MANUFACTURER'S INSTRUCTIONS. THOROUGHLY CLEAN PAVEMENT PRIOR TO APPLICATION OF COATINGS OR MARKINGS.
4. STRIPING & NUMBERS SHALL BE 2-INCH WIDE WHITE PAINT (UNLESS NOTED OTHERWISE). NUMBER FONT SHALL BE ARIAL BLACK. CENTER NUMBERS WITHIN SQUARES.
5. GAME COLORS SHALL BE BRIGHT PRIMARY COLORS. COLOR ABBREVIATIONS INDICATED IN DETAILS ARE FOR REFERENCE ONLY. SPACES SHALL BE SOLID COLORS. DO NOT PAINT COLOR INITIAL IN SPACE UNLESS SPECIFICALLY NOTED.
   R = RED
   Y = YELLOW
   G = GREEN
   B = BLUE
   O = ORANGE

PAVED PLAY STRIPING N.T.S.

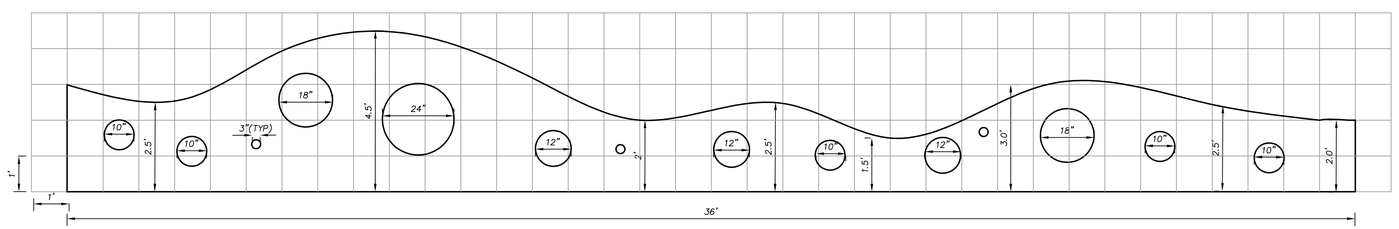


CHALK WALL ELEVATION SECTION – 20 LF

CHALK WALL ELEVATIONS N.T.S.



HOLEY WALL ELEVATION SECTION – 30 LF



HOLEY WALL ELEVATION SECTION – 36 LF

HOLEY WALL ELEVATIONS N.T.S.

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA LANDSCAPE ARCHITECT 1699 6-2-16 GARY R. PIERCE

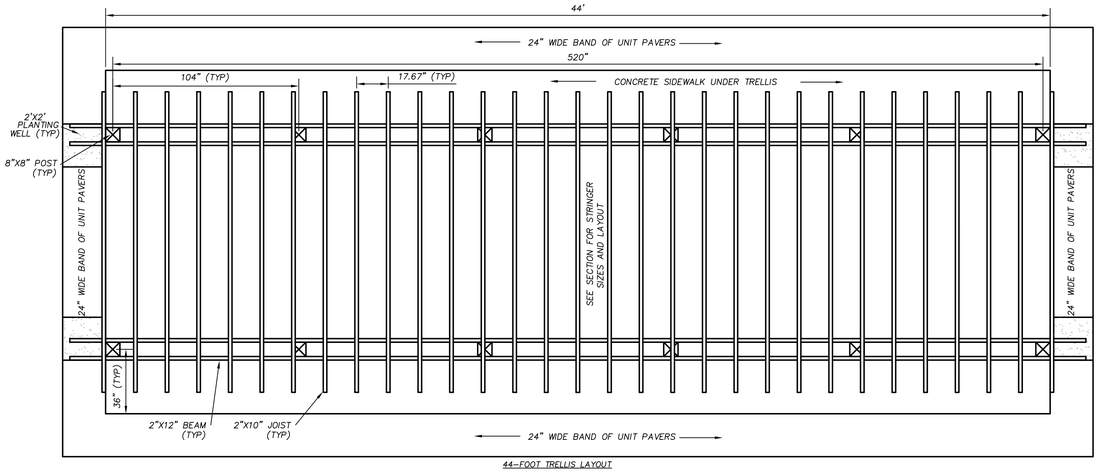
PHASE 1
DOWDY PARK - SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS	NO.	DATE	DESCRIPTION
	1		

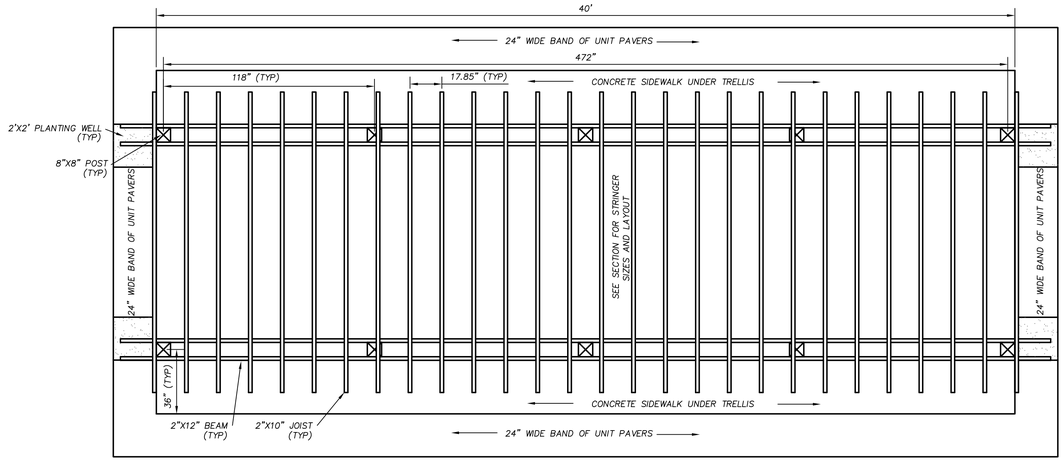
DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE:

SITE DETAILS

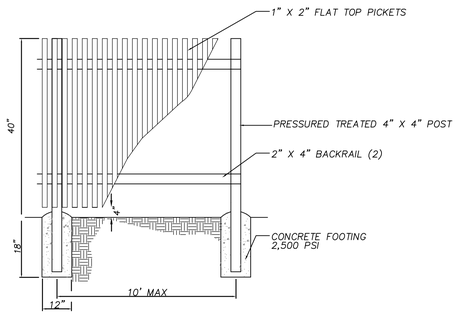
C7.4



44'-FOOT TRELLIS LAYOUT

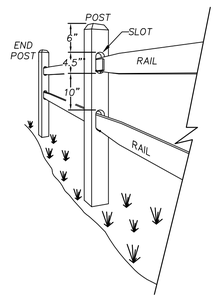


40'-FOOT TRELLIS LAYOUT

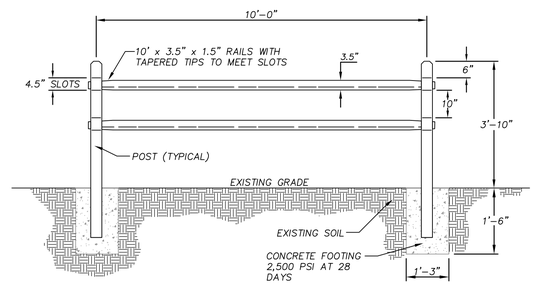


NOTES
1. USE HOT DIPPED GALVANIZED RING SHANK NAILS TO FASTEN 1X2 VERTICALS TO HORIZONTAL RAILS.
2. PROVIDE MAX.2"GAP BETWEEN VERTICALS.
3. PROVIDE 4"GAP BETWEEN BOTTOM OF 1X2 AND FINISH GRADE.
4. ALL MATERIALS TO BE ARSENIC FREE PRESSURE- TREATED TO GROUND CONTACT QUALITY.
5. ALL EDGES OF FENCE BOARDS SHALL BE SMOOTH AND FREE FROM SPLINTERS AND ROUGH EDGES.
6. SEE STAKING PLAN FOR LOCATION.

PICKET FENCE N.T.S.



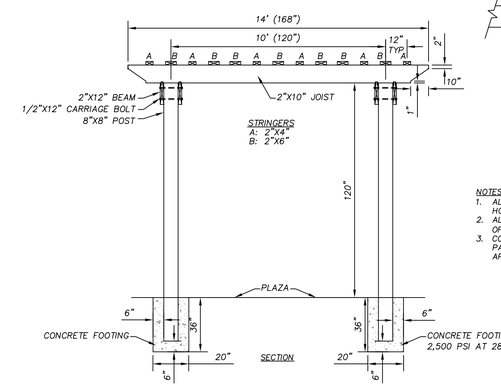
PERSPECTIVE VIEW

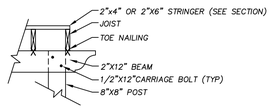


FRONT VIEW

NOTES:
1) ALL WOOD FOR SPLIT RAIL FENCE TO BE ARSENIC FREE PRESSURE TREATED.
2) END POST SHALL BE TERMINAL POST.

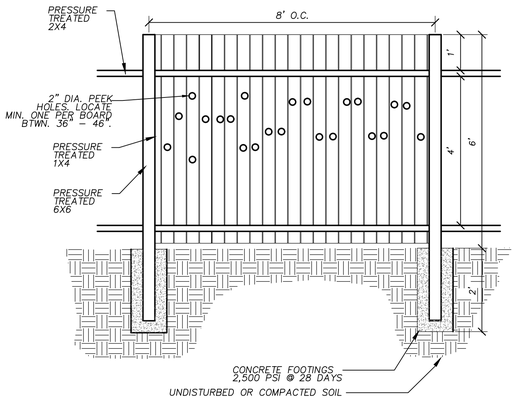
STANDARD SPLIT-RAIL FENCE N.T.S.





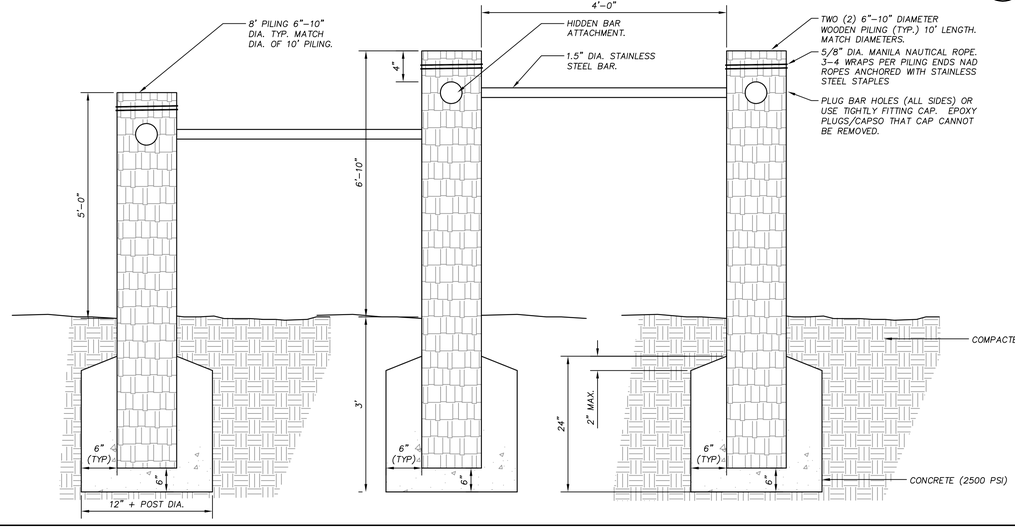
NOTES:
1. ALL STRUCTURAL FASTENERS/CONNECTORS SHALL BE HOT DIPPED GALVANIZED
2. ALL WOOD SHALL BE SALT TREATED LUMBER AND FREE OF LARGE IMPERFECTIONS (I.E. KNOTS, SPLITS, ETC)
3. CONTRACTOR SHALL SUBMIT CONCRETE PLAZA SCORING PATTERN LAYOUT TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLING CONCRETE

PROMENADE TRELLIS – ADD ALTERNATE #2 N.T.S.

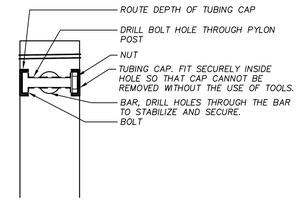


NOTES
1. USE HOT DIPPED GALVANIZED RING SHANK NAILS TO FASTEN 1X4 VERTICALS TO HORIZONTAL RAILS.
2. PROVIDE MAX. 1/16"GAP BETWEEN VERTICALS
3. PROVIDE 2"GAP BETWEEN BOTTOM OF 1X4 AND FINISH GRADE.
4. ALL MATERIALS TO BE ARSENIC FREE PRESSURE-TREATED TO GROUND CONTACT QUALITY.
5. ALL EDGES OF PEEK HOLES AND FENCE BOARDS SHALL BE SMOOTH AND FREE FROM SPLINTERS AND ROUGH EDGES.

PEEK-A-BOO FENCE N.T.S.



CHIN-UP BARS N.T.S.



POST TOP SECTION

NOTES:
1. CONTRACTOR SHALL PROVIDE TWO SETS OF CHIN-UP BARS WITH BAR HEIGHTS AS SPECIFIED IN DETAIL.
2. ALL EXPOSED WOOD SHALL BE SMOOTH AND FREE FROM SPLINTERS. ALL WOOD CORNERS SHOULD BE ROUNDED.
3. ALL HARDWARE SHALL BE CORROSION RESISTANT AND SUITABLE FOR OUTDOOR USE.

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 6-21-16 GARY R. PIERCE

REVISIONS

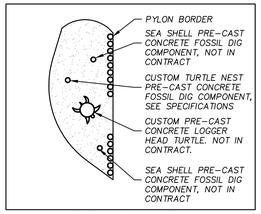
NO.	DATE	DESCRIPTION
#1	6-21-2016	ADDENDUM #1

DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE:

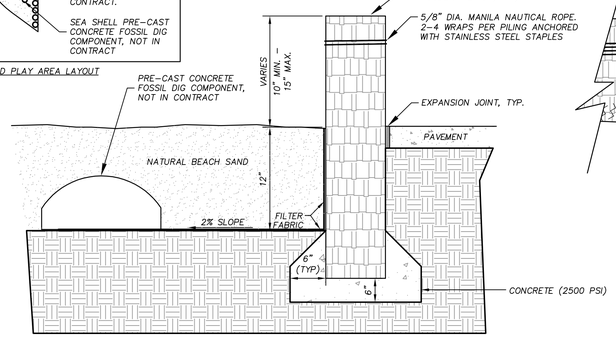
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

SITE DETAILS

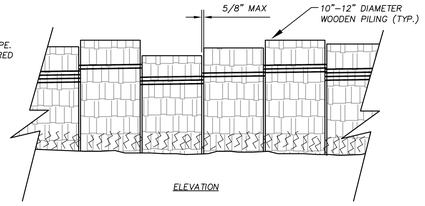
C7.5



SAND PLAY AREA LAYOUT



SECTION



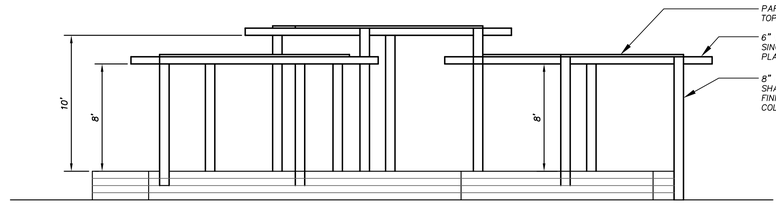
ELEVATION

NOTES:

1. ALL WOOD SHALL BE ARSENIC FREE PRESSURE TREATED POSTS RATED FOR GROUND CONTACT.
2. ALL EXPOSED WOOD SHALL BE SMOOTH AND FREE FROM SPLINTERS. ALL WOOD CORNERS SHOULD BE ROUNDED.
3. WOOD PILINGS SHALL BE INSTALLED TIGHTLY TOGETHER.
4. NAUTICAL ROPE SHALL BE ONE CONTINUOUS STRAND WRAPPING AROUND THE WOOD PILINGS.
5. ENDS OF THE ROPE SHALL BE SEALED TO PREVENT FRAYING.
6. OWNER'S PLAYGROUND INSTALLER SHALL INSTALL THREE FOSSIL DIG COMPONENTS IN SAND PLAY AREA MIN. 12" AWAY FROM PERIMETER OF SAND PLAY AREA. CUSTOM TURTLE NEST PIECE SHALL BE INSTALLED BY OWNER'S PLAYGROUND IN STALLER NEAR TURTLE PATH IN SIDEWALK. LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

SAND PLAY AREA AND PYLONS

N.T.S.



PARASOLEIL CUSTOM SHADE PANEL AND SHADE STRUCTURE BY POLIGON STEEL PARK SHELTERS. CONTACT: HUDSON VEAL, CAROLINA PARKS AND PLAY, 919-805-0934.
LASER CUT ALUMINUM PANEL, 1/8" THICK, PATTERN: B3, FINISH: COR-11 POWDERCOAT WITH SEASIDE CLIMATE TREATMENT.

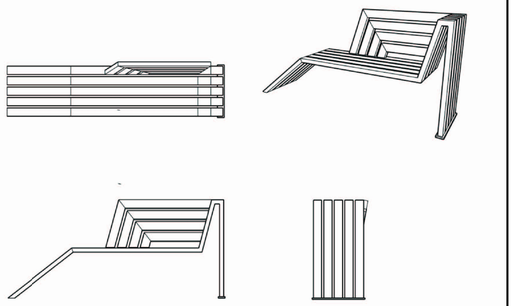
SHOP DRAWINGS REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT. SEASIDE CLIMATE FINISH REQUIRED.

DECK SHADE STRUCTURES - NOT IN CONTRACT

N.T.S.

IRONHOUSE FORGE

IronHouseForge.com
Lucas House
919-345-6359
OR APPROVED EQUAL

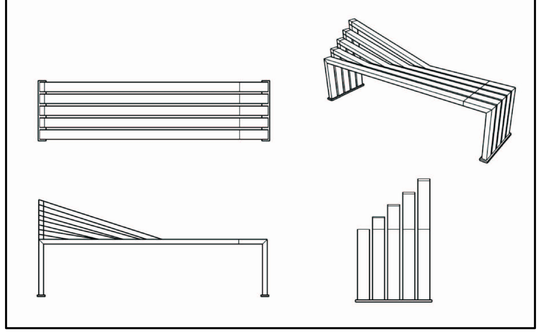


ART BENCH-TYPE 1 - NOT IN CONTRACT

N.T.S.

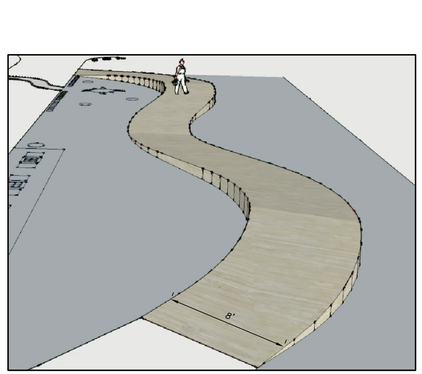
IRONHOUSE FORGE

IronHouseForge.com
Lucas House
919-345-6359
OR APPROVED EQUAL

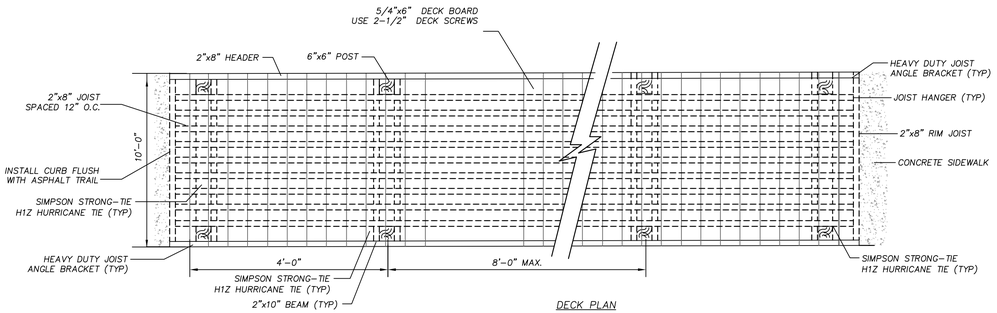


ART BENCH-TYPE 2 - NOT IN CONTRACT

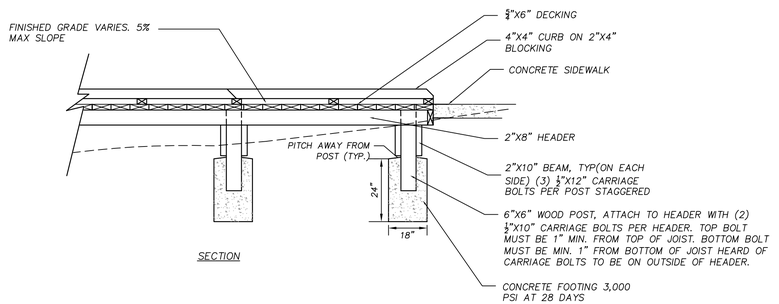
N.T.S.



PERSPECTIVE VIEW



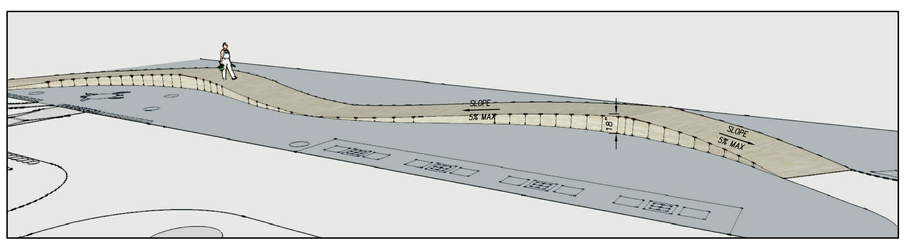
DECK PLAN



SECTION

NOTES:

1. ALL POSTS, PICKETS, JOISTS AND HEADERS SHALL BE ARSENIC FREE #2 PRESSURE TREATED S.Y. PINE.
2. ALL FASTENERS/CONNECTORS SHALL BE STAINLESS STEEL.
3. ALL BOLTS MUST BE COUNTERSUNK AND ALL FASTENERS INSTALLED SO THAT NO PART PROTRUDES BEYOND FACE OF WOOD.
4. ALL FASTENERS AND CONNECTORS SHOULD NOT LOOSEN WITHOUT THE USE OF TOOLS. LOCK WASHERS, SELF-LOCKING NUTS, OR OTHER LOCKING MEANS SHOULD BE PROVIDED FOR ALL NUTS AND BOLTS TO PROTECT THEM FROM DETACHMENT.
5. WOOD PARTS SHOULD BE SMOOTH AND FREE FROM SPLINTERS. ALL WOOD CORNERS SHOULD BE ROUNDED.
6. ALL CONCRETE SUPPORTS SHOULD PROVIDE POSITIVE DRAINAGE AWAY FROM WOOD POSTS.
7. MAX. SLOPE SHALL NOT EXCEED 5%



PERSPECTIVE VIEW

WAVY WALK - ADD ALTERNATE #3

N.T.S.

THE TOWN OF NAGS HEAD N.C. 1961
TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 6-2-16 ZACHARY R. PIERCE

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS

NO.	DATE	DESCRIPTION
#1	6-21-2016	ADDENDUM #1

DESIGNED BY: AMR/BH
DRAWN BY: HR
DATE: JUNE-2-2016
PROJECT NO: 16-115
FILE:

SITE DETAILS

C7.6

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(except 1 and 2-family dwellings and townhouses)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Dowdy Park Pavilion
Address: Bonnett Street
Nags Head, NC

Proposed Use: Pavilion
Owner/Authorized Agent: The Town of Nags Head
Phone # 252.441.5508 E-Mail www.townofnagshead.gov
Owned By: x City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: x City Nags Head ☐ County ☐ State

LEAD DESIGN PROFESSIONAL: Benjamin Cahoon , AIA

DESIGNER	FIRM	NAME	LIC #	TELEPHONE #	E-mail
Architectural	Cahoon + Kasten Architects	Mark Kasten	7220	252.441.0271	mark@obxarchitects.com
Civil					
Electrical					
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	Kitty Hawk Engineering	Barrett Crook	027540	252.655.1056	barrettcrook@kittyhawkengineering.com
Retaining Walls >5'h					
Other					

2012 EDITION OF NC CODE FOR: x New Construction ☐ Addition ☐ Upfit
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair ☐ Renovation
CONSTRUCTED: (date) ____ **ORIGINAL USE(S)** (Ch.3): ____
RENOVATED: (date) ____ **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 ☐ V-A x V-B
Sprinklers: x No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: x No ☐ Yes Class ☐ I ☐ II ☐ III
Fire District: x No ☐ Yes (primary) **Flood Hazard Area:** No ☐ Yes ☐ Wet ☐ Dry
Building Height: Feet 14
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		1800	1800
Basement			
Total		1800	1800

ALLOWABLE AREA

Occupancy:
Assembly ☐ A-1 ☐ A-2 x 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 ☐

Accessory Occupancy:
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):
☐ 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: ☐ 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: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

Mixed Occupancy: ☐ No ☐ Yes Separation: _____ Hr. Exception: _____
☐ Incidental Use Separation (508.2.5)
This separation is not exempt as a Non-Separated Use (see exceptions).
☐ 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.
☐ 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + _____ ≤ 1.00

STORY NO	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503[3] AREA	(C) AREA FOR OPEN SPACE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]
1	Pavilion	1800	6000	not used	n/a	n/a	

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum 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 If = 100 [F/P - 0.25] x W/30 = _____ (%)
2 The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building Is = 200 percent
b. Single story building Is = 300 percent
3 Unlimited area applicable under conditions of Section 507.
4 Maximum Building Area = total number of stories in the building x E (506.4).
5 The maximum area of parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE (Table 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type V-B		Type V-B	
Building Height in Feet	Feet 40	Feet = H + 20' =	14	
Building Height in Stories	Stories 1	Stories + 1 =	Stories 1	

FIRE PROTECTION REQUIREMENTS

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		0					
Bearing walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and partitions							
Exterior							
North							
East							
West							
South							
Interior							
Floor construction Including supporting beams and joists							
Roof construction Including supporting beams and joists							
Shafts - Exit		N/A					
Shafts - 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

Emergency Lighting: x No ☐ Yes
Exit Signs: x No ☐ Yes
Fire Alarm: x No ☐ Yes
Smoke Detection Systems: x No ☐ Yes ☐ Partial _____
Panic Hardware: x No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A0.1

☐ 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 the proposed building
x Occupancy types for each area as it relates to occupant load calculations (Table 1004.1.1)
x Occupant loads for each area
x 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 (1008.1.9.7)
☐ 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 (SECTION 1106)

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

N/A

ACCESSIBLE PARKING (SECTION 1106)

Lot or Parking Area	Total # of Parking Spaces Required	Total # of Parking Spaces Provided	# of Accessible Spaces With 5' Access Aisle	# of Accessible Spaces With 8' Access Aisle	Total # Accessible Provided
Total					

SEE CIVIL DRAWINGS

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (I_w) 1.0; Snow (I_s) 1.1; Seismic (I_e) 1.0

Live Loads: Roof 20 psf; Mezzanine N/A psf; Floor 100 psf

Ground Snow Load: 10 psf

Wind Loads: Basic Wind Speed 130 mph (ASCE-7); Exposure Category C; Wind Base Shears (for MWFRS) Vx = _____ Vy = _____

SEISMIC DESIGN CATEGORY ☐ A ☐ B ☐ C ☐ D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_S _____ %g S_1 _____ %g
Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system (check one)
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Seismic base shear: Vx = _____ Vy = _____
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind x

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf.
Presumptive Bearing capacity 1500 psf.
Pile size, type, and capacity N/A

SPECIAL INSPECTIONS REQUIRED: x Yes ☐ No

PLUMBING FIXTURE REQUIREMENTS (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								

RESTROOM ARE PROVIDED ON SITE

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

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 the annual energy cost for th proposed design.

Climate Zone ☐ 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:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylights:
total s.f. of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
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:
U-Value of total assembly:
R-Value of insulation:

Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:

N/A

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

N/A

MARK AREY KASTEN REGISTERED ARCHITECT 7220 NORTH CAROLINA — CAHOON & KASTEN ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 51211 NORTH CAROLINA — NAGS HEAD, NC

06/02/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027540 BARRETT G. CROOK

6-1-2016

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

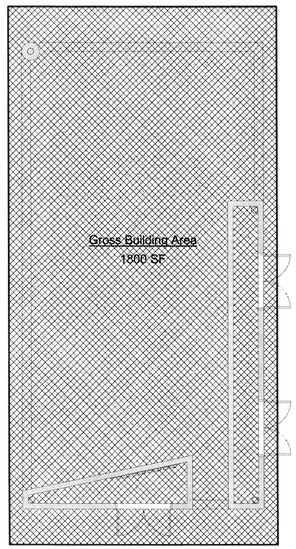
Lighting schedule: (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

N/A

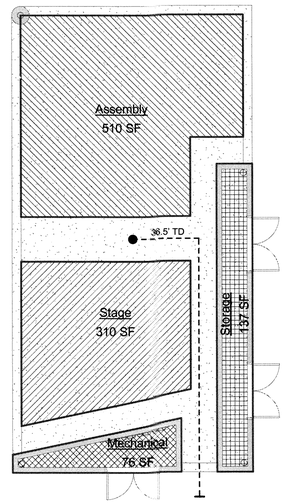
Additional Prescriptive Compliance
☐ 506.2.1 More Efficient Mechanical Equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems

Occupant Schedule

Name	Area	Occupancy	Occupancy S.F. Type	Area Per Occupant	Occupants
Assembly	510 SF	Assembly Standing Space	Net	5 SF	103
Mechanical	76 SF	Mechanical Equipment Room	Gross	300 SF	1
Stage	310 SF	Stages and Performances	Net	15 SF	21
Storage	137 SF	Warehouses	Gross	500 SF	1
					126



1 (1) First Floor
1/8" = 1'-0"



2 (1) First Floor
1/8" = 1'-0"

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

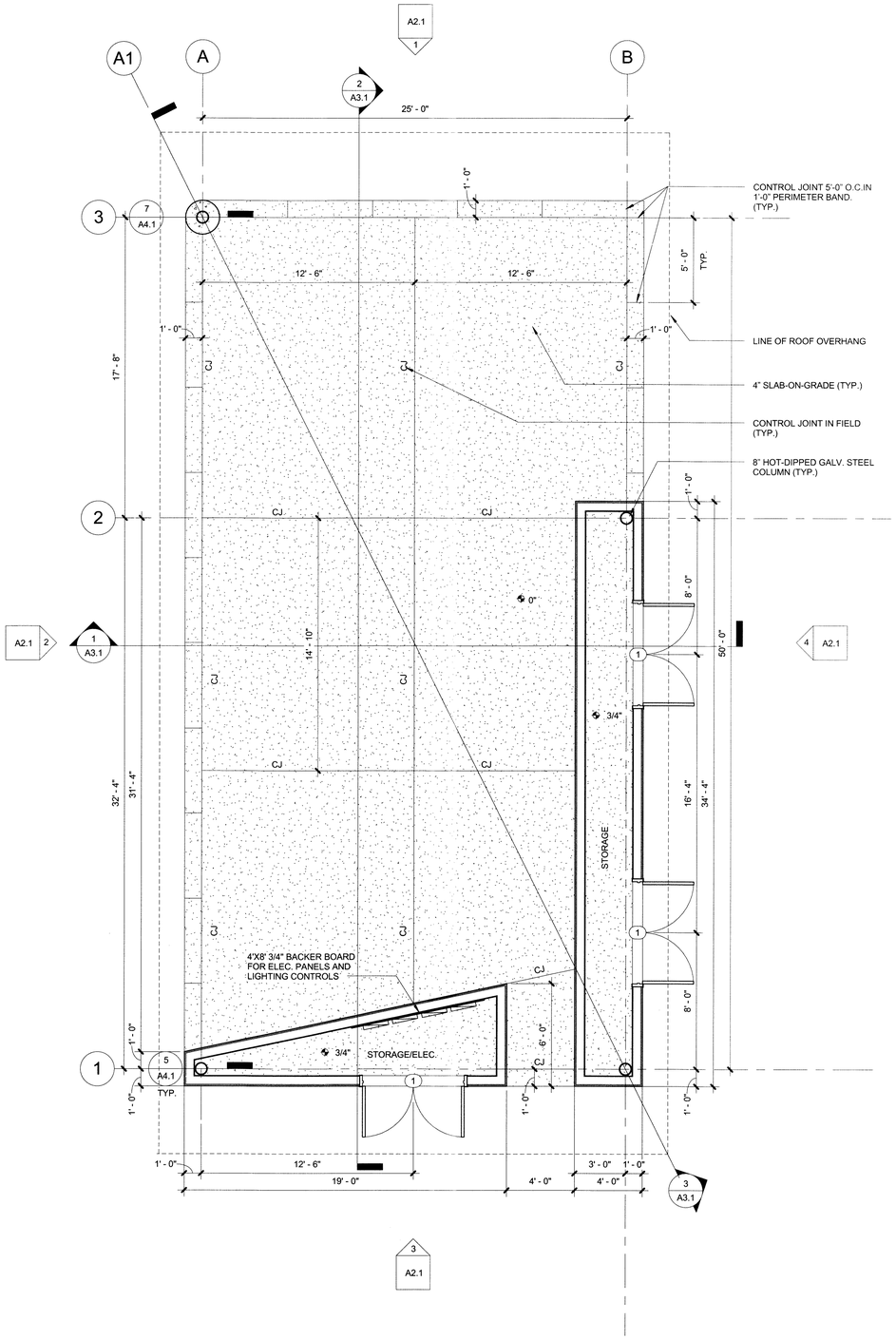
REVISIONS

No.	Description	Date

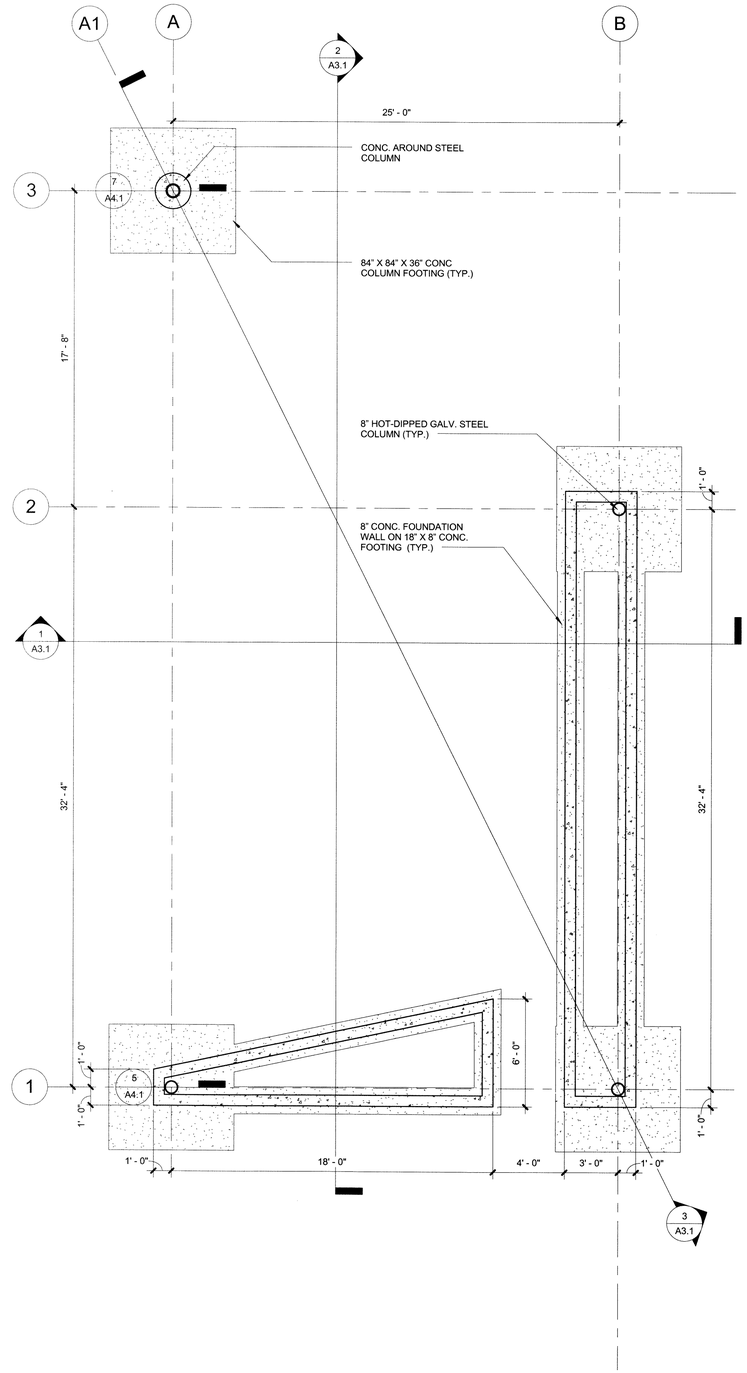
DESIGNED BY: MAK
DRAWN BY: MAK
DATE: June 2, 2016
PROJECT NO: 16005RF
FILE:

Code Summary

A0.1



2 First Floor Plan
1/4" = 1'-0"



1 Foundation Plan
1/4" = 1'-0"

Door Schedule Comm										
	Door						Frame			
Type	Width	Height	Thickness	Material	Finish	Fire Rating	Type	Material	Finish	Comments
1	6' - 0"	7' - 0"	2"	HM	PTD	0	HM	GALV	PTD	

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARK AREY KASTEN REGISTERED ARCHITECT 7220 NORTH CAROLINA NAGS HEAD, NC
06/02/16

CAHOON & KASTEN ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 51211 NORTH CAROLINA NAGS HEAD, NC

NORTH CAROLINA PROFESSIONAL SEAL 027540 ENGINEER BARRETT C. CROOK
6-1-2016

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN

CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN

TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

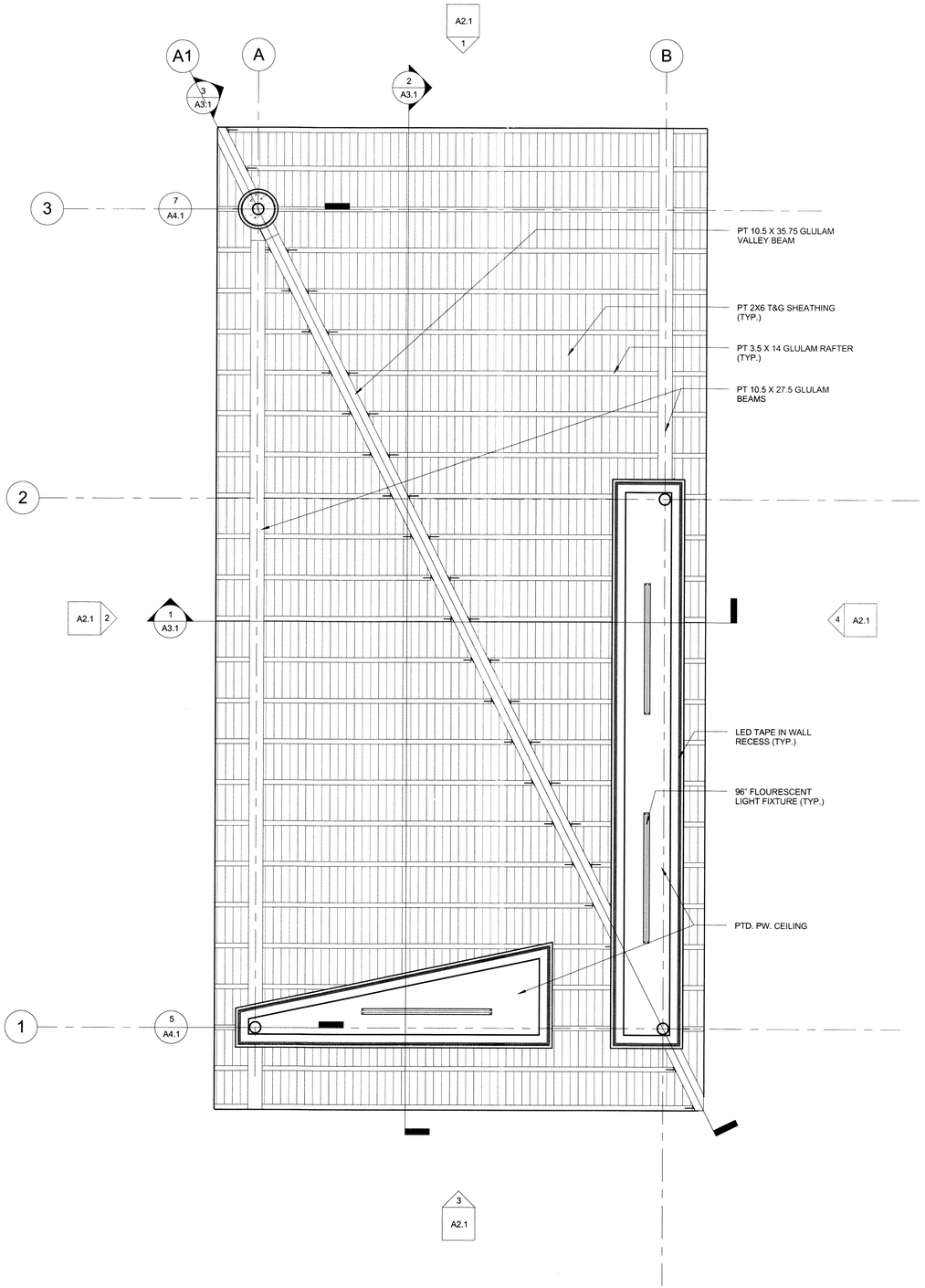
REVISIONS

No.	Description	Date

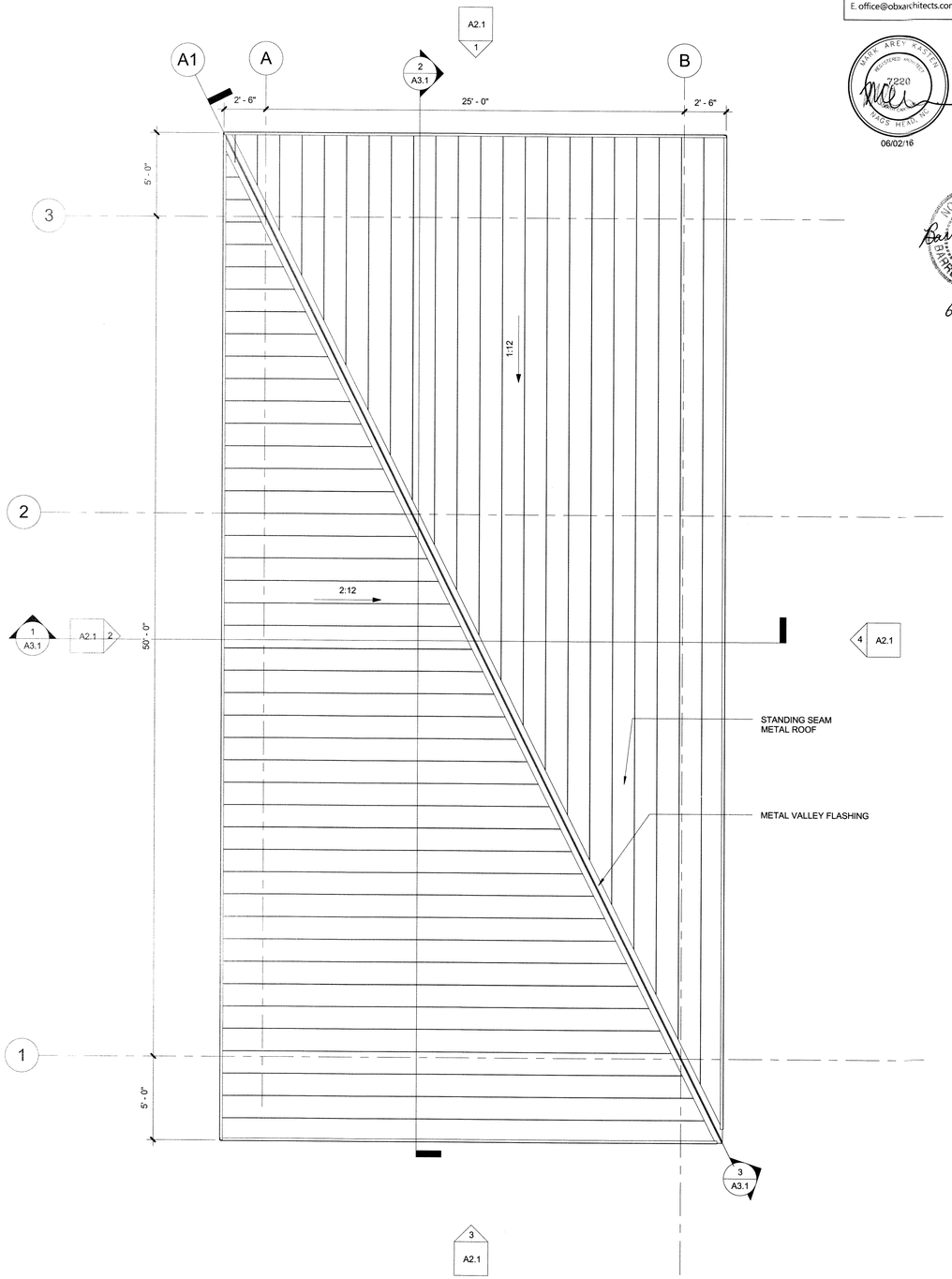
DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Foundation & Floor Plans

A1.1



(2) (1) First Floor
1/4" = 1'-0"



(1) Roof Plan
1/4" = 1'-0"

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

DEREK AREY KASTEN ARCHITECT 7220 NAGS HEAD, NC
CAHOON & KASTEN ARCHITECTURAL COMPANY, P.C. 51211 NAGS HEAD, NC
06/02/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027540 GARRETT C. CROOK
6-1-2016

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS

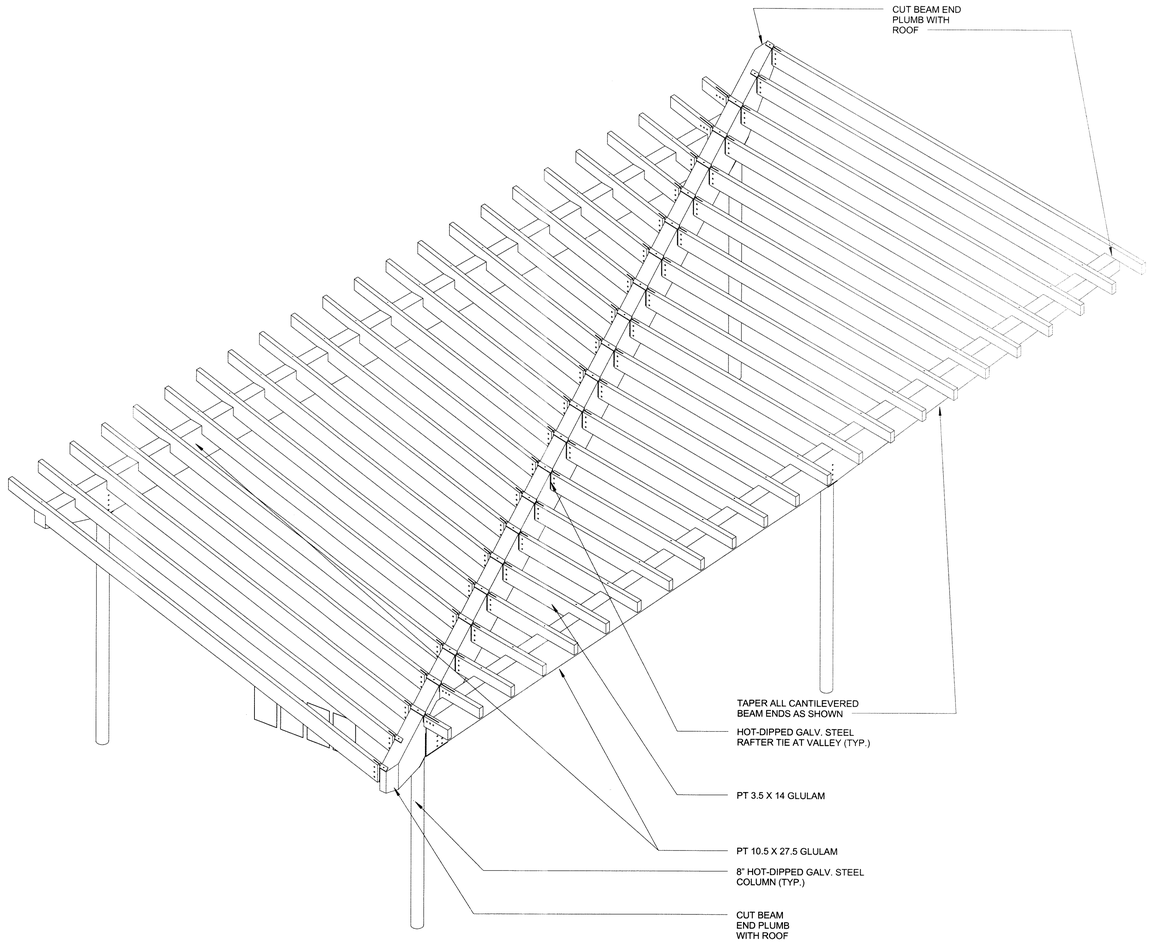
No.	Description	Date

DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

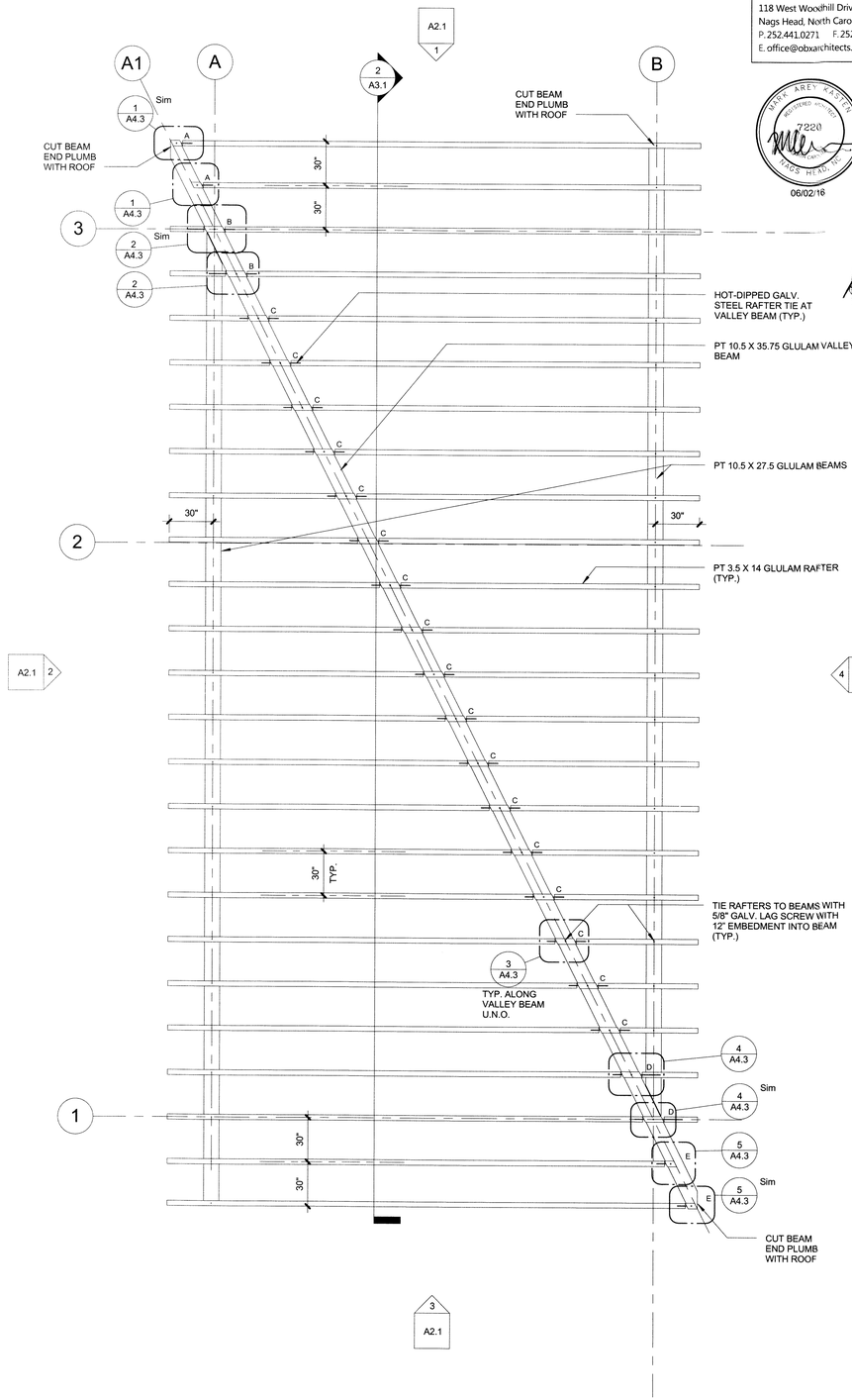
Pavilion Roof & Reflected Ceiling Plans

A1.2

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com



2 Roof Framing Iso



1 Roof Plan
1/4" = 1'-0"

MARK AREY EASTEN
REGISTERED ARCHITECT
7220
NAGS HEAD, NC
CAHOON & KASTEN ARCHITECTS, P.C.
REGISTERED ARCHITECTURAL CORPORATION
51211
NAGS HEAD, NC
06/02/16

NORTH CAROLINA PROFESSIONAL SEAL 027540 ENGINEER BARRETT C. CROOK
6 - 1 - 2016

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1585

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS

No.	Description	Date

DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Roof Framing Plan

A1.3

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARY AREY KASTEN REGISTERED ARCHITECT 7220 NORTH CAROLINA NAGS HEAD, NC

CAHOON & KASTEN ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 51211 NORTH CAROLINA NAGS HEAD, NC

06/02/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027540 BARRETT C. CROOK

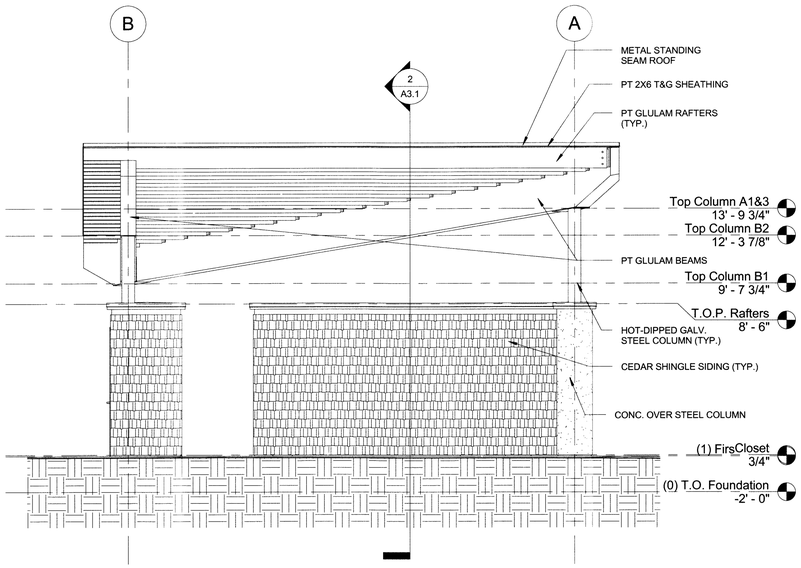
Barrett C. Crook

6-1-2016

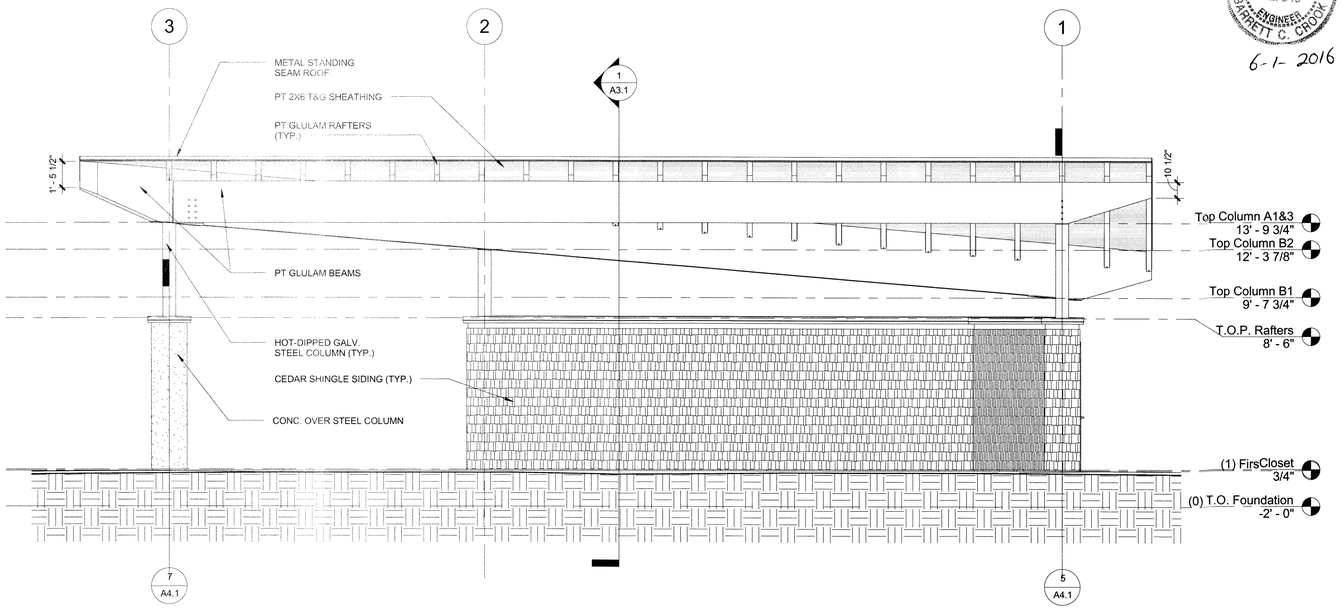
TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 * www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

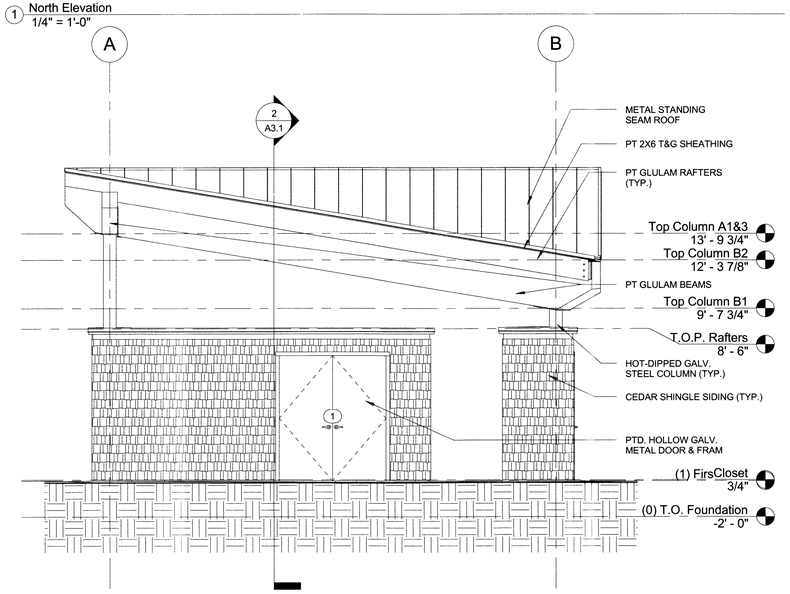
SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION



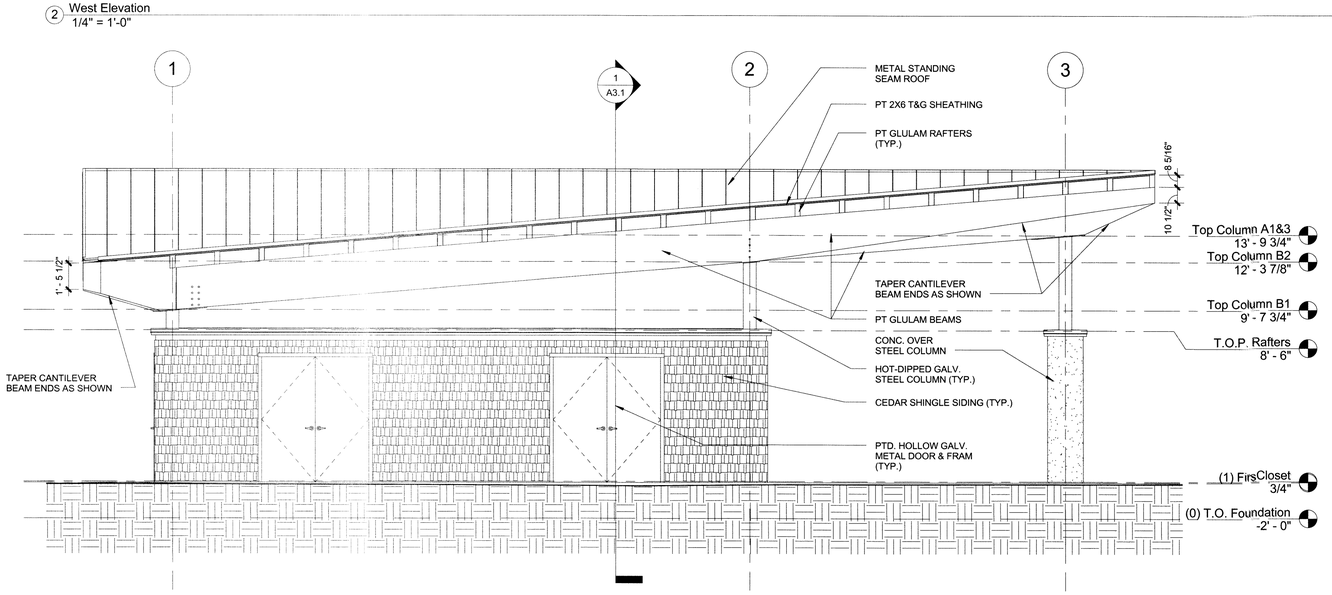
1 North Elevation
1/4" = 1'-0"



2 West Elevation
1/4" = 1'-0"



3 South Elevation
1/4" = 1'-0"



4 East Elevation
1/4" = 1'-0"

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

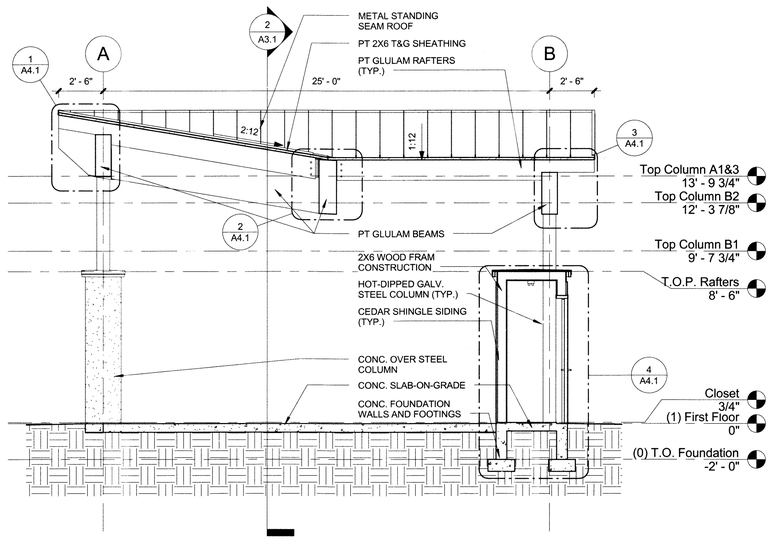
REVISIONS

No.	Description	Date

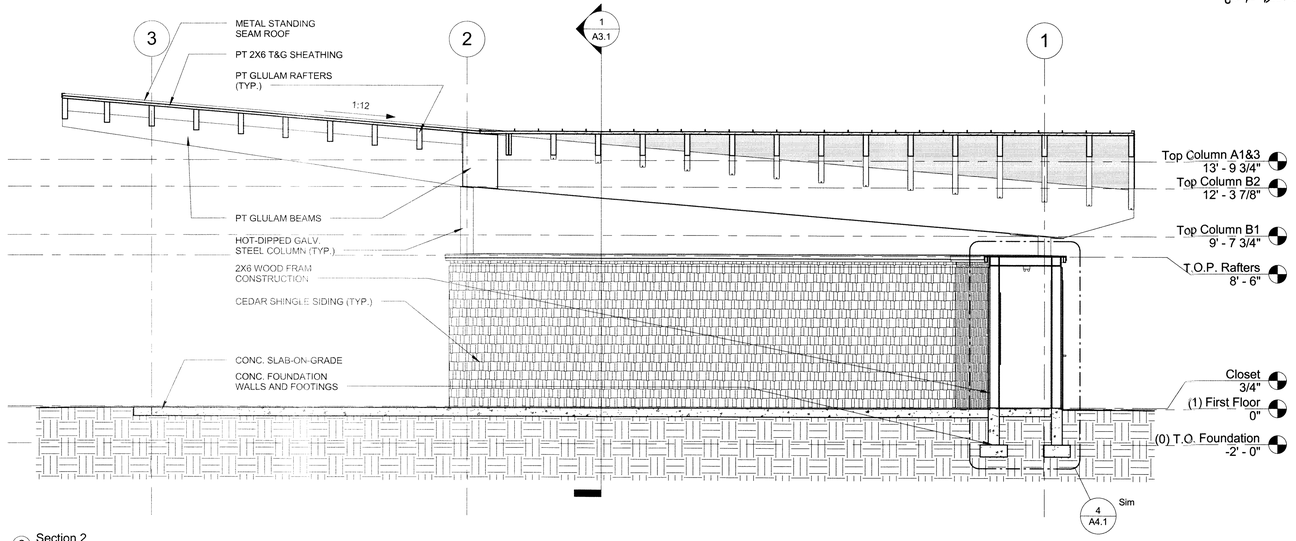
DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Exterior Elevations

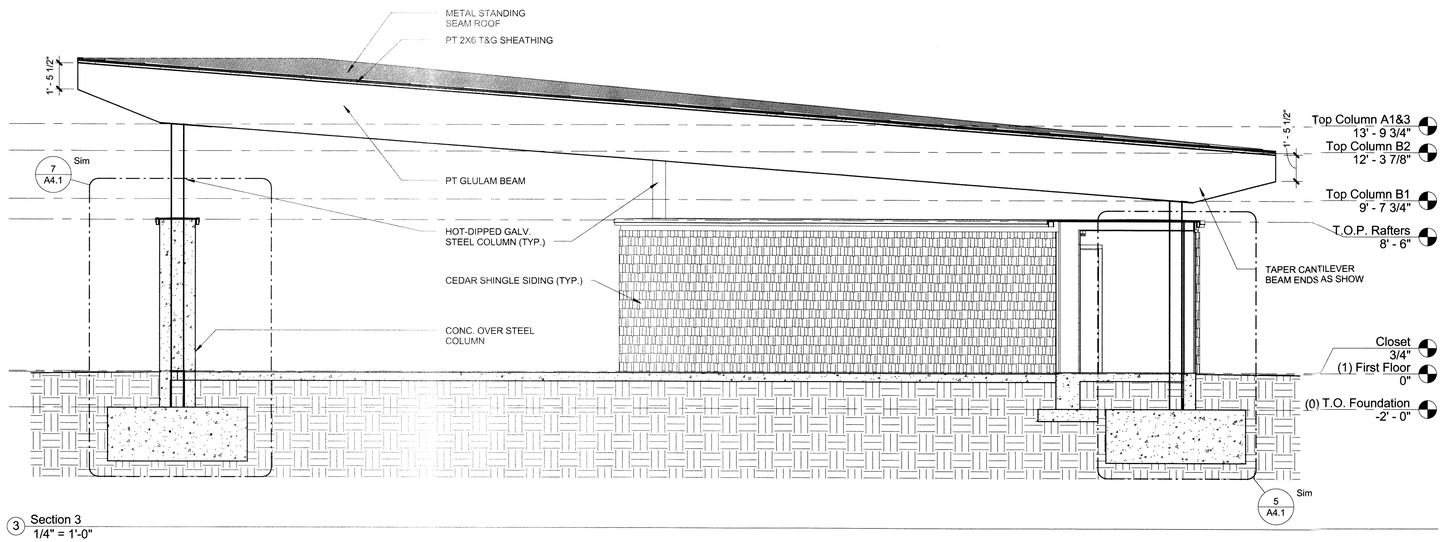
A2.1



1 Section 1
1/4" = 1'-0"



2 Section 2
1/4" = 1'-0"



3 Section 3
1/4" = 1'-0"

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARK AREY KASTEN REGISTERED ARCHITECT 7220 CAHOON & KASTEN ARCHITECTS, P.C. NAGS HEAD, N.C.

CAHOON & KASTEN ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 51211 NAGS HEAD, N.C.

06/02/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027540 BARRETT C. CROOK

6-1-2016

THE TOWN OF NAGS HEAD 1961 NAGS HEAD, N.C.

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

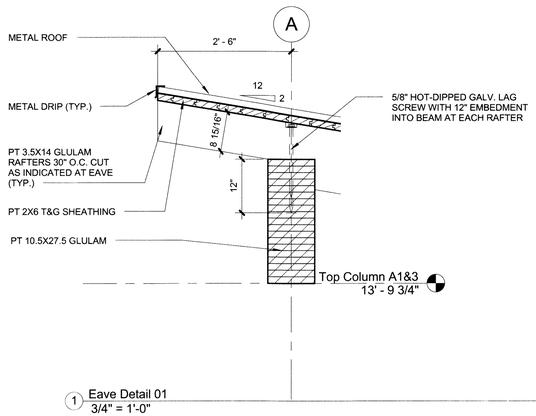
REVISIONS

No.	Description	Date

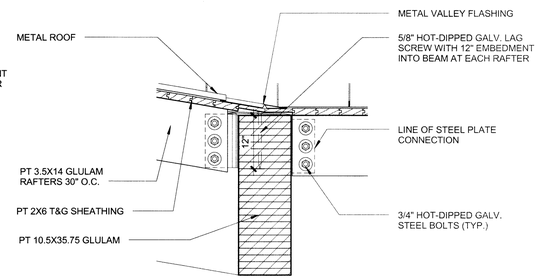
DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Building Sections

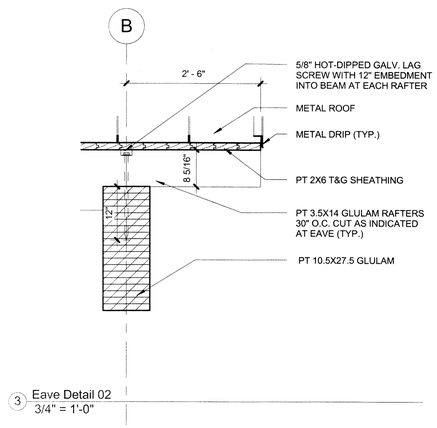
A3.1



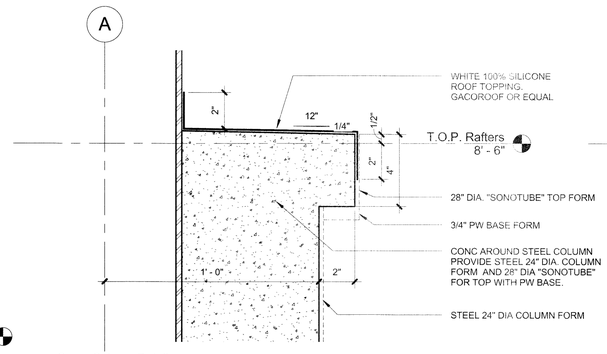
1 Eave Detail 01
3/4" = 1'-0"



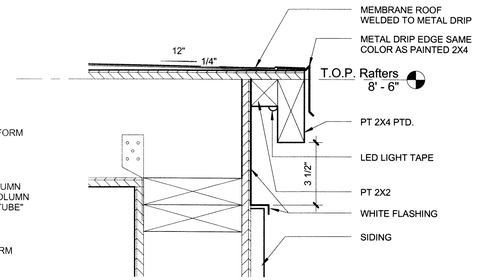
2 Valley Detail
3/4" = 1'-0"



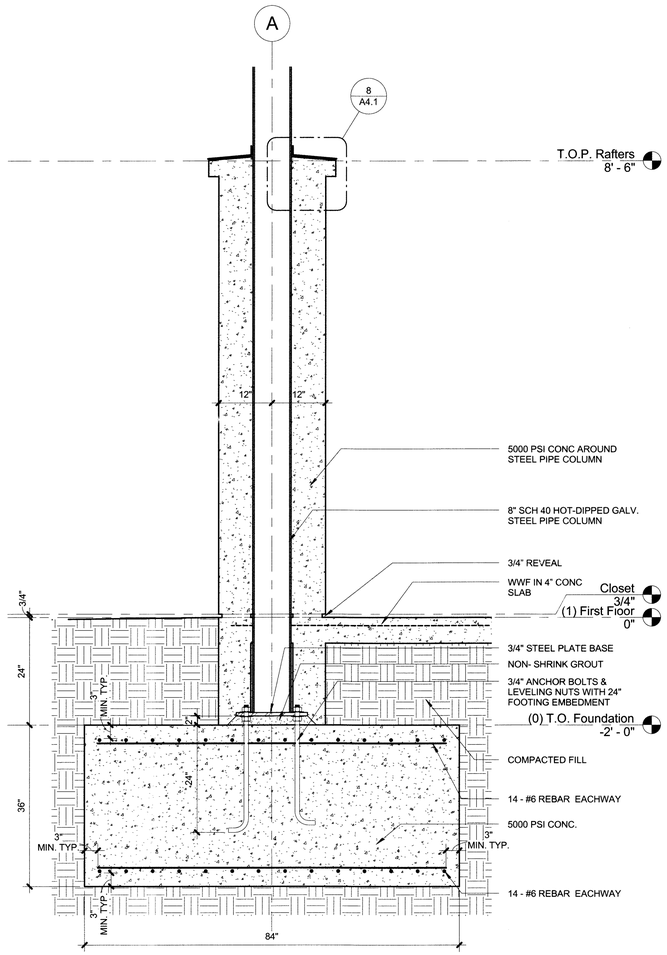
3 Eave Detail 02
3/4" = 1'-0"



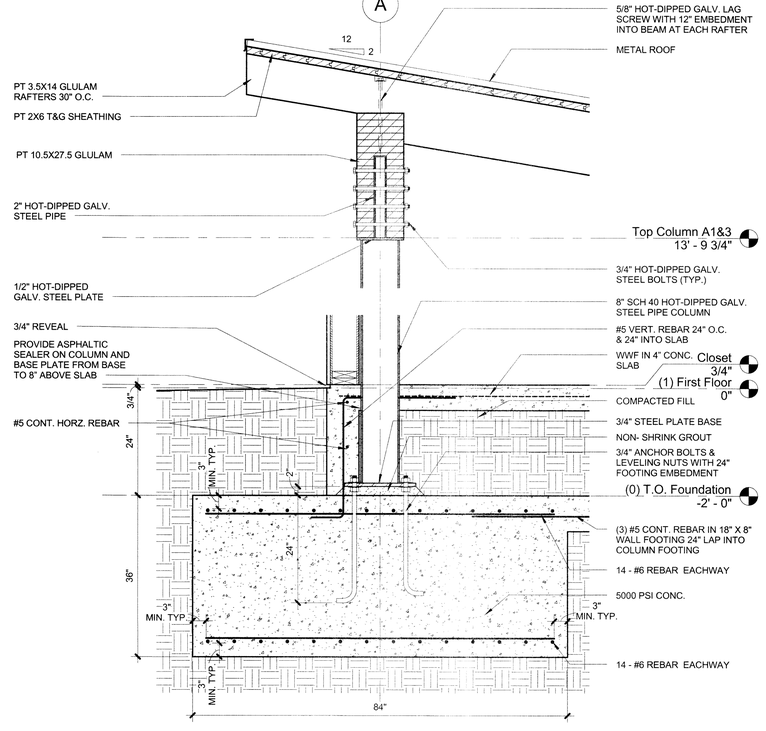
8 Conc. Column Detail
3" = 1'-0"



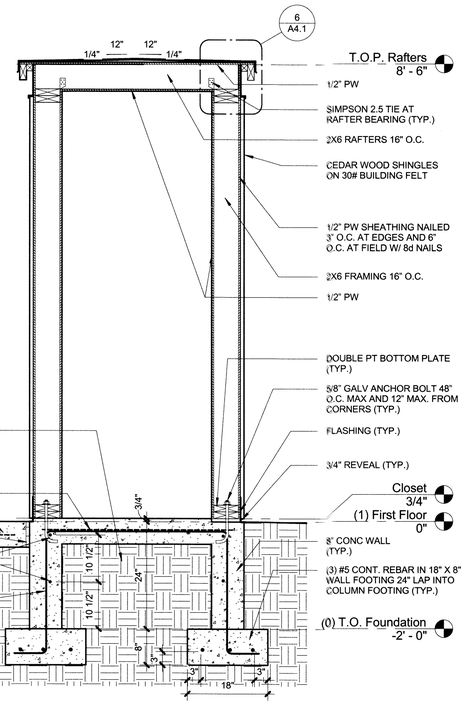
6 Closet Eave Detail
3" = 1'-0"



7 Column A3 Section
3/4" = 1'-0"



5 Typical Column Section
3/4" = 1'-0"



4 Wall Section
3/4" = 1'-0"

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARK A. KREY KASTEN 7220 REGISTERED ARCHITECT NAGS HEAD, NC
CAHOON & KASTEN ARCHITECTS, P.C. 51211 NAGS HEAD, NC
06/02/16

NORTH CAROLINA PROFESSIONAL 027540 ENGINEER BARRETT C. CROOK
6-1-2016

THE TOWN OF 1961 NAGS HEAD, N.C.

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

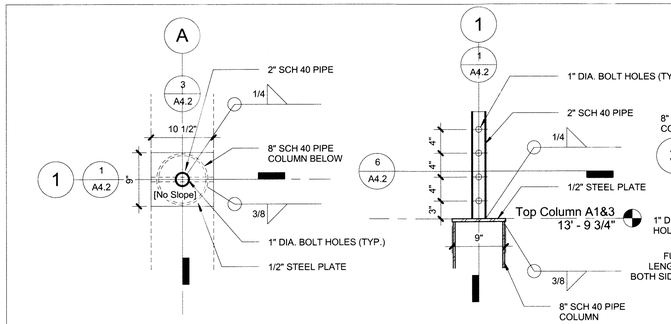
REVISIONS

No.	Description	Date

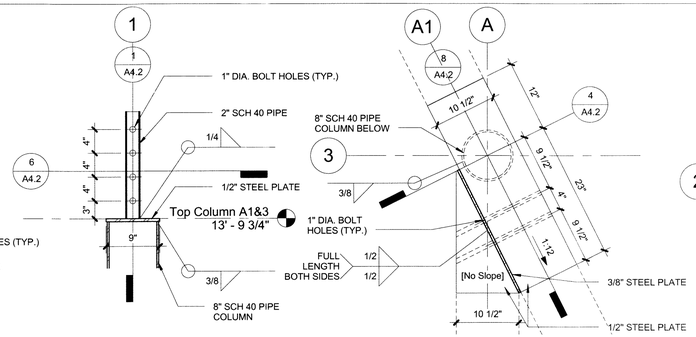
DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Construction Details

A4.1

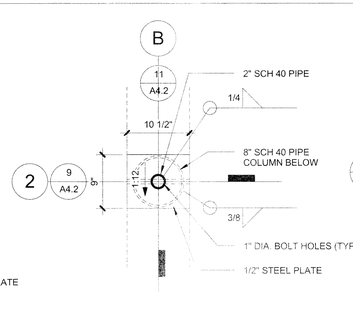


6 Column A1 Top Plate Detail
1" = 1'-0"

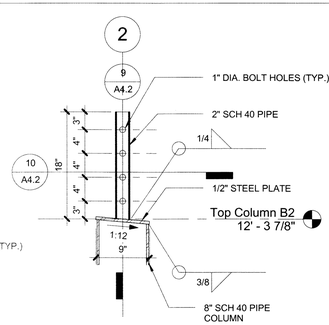


3 Column A1 Top Detail 01
1" = 1'-0"

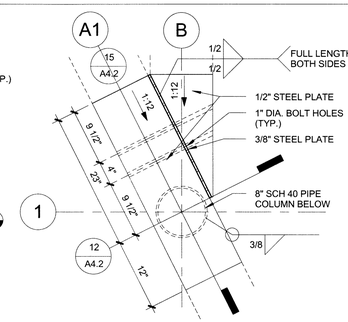
7 Column A3 Top Plate Detail
1" = 1'-0"



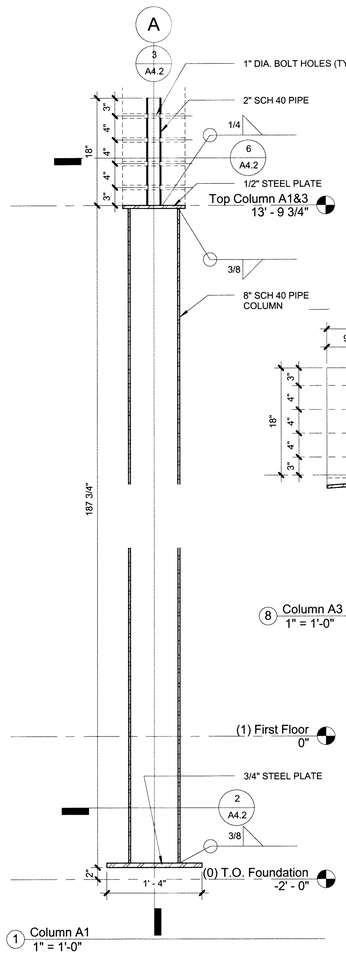
10 Column B2 Top Plate Detail
1" = 1'-0"



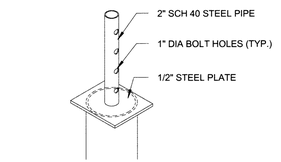
11 Column B2 Top Detail 01
1" = 1'-0"



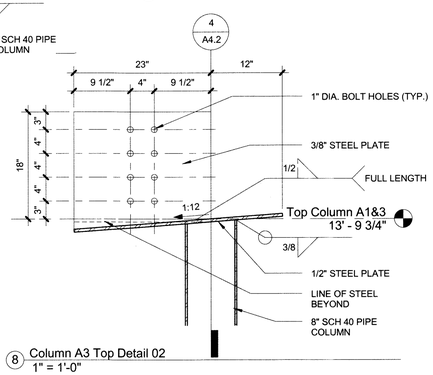
13 Column B1 Top Plate Detail
1" = 1'-0"



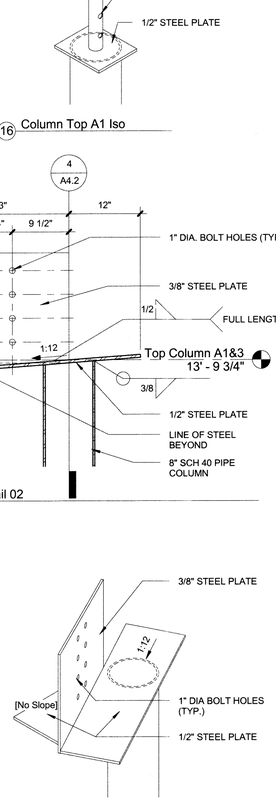
1 Column A1
1" = 1'-0"



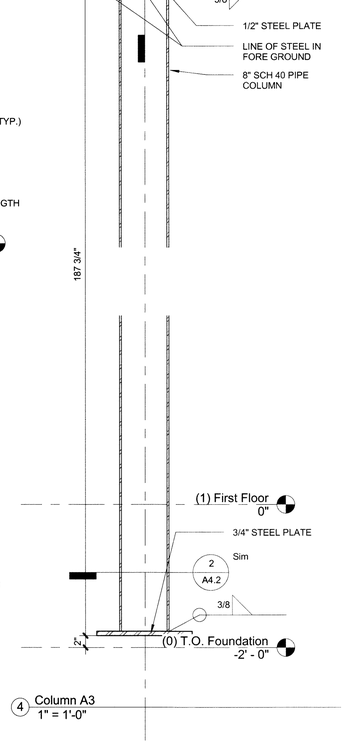
16 Column Top A1 Iso



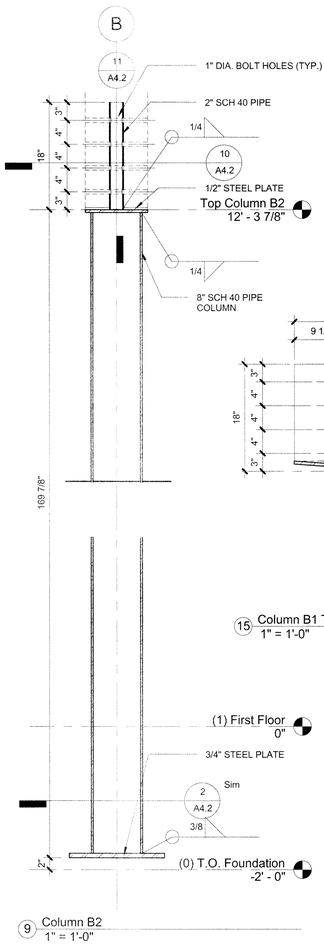
8 Column A3 Top Detail 02
1" = 1'-0"



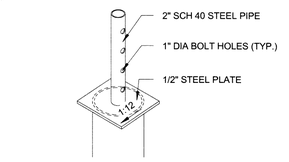
5 Column Top A3 Iso



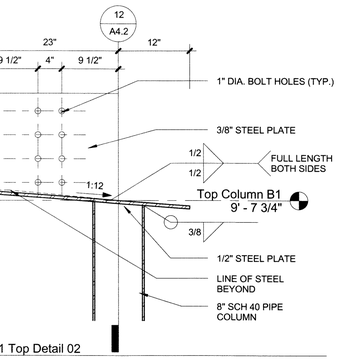
4 Column A3
1" = 1'-0"



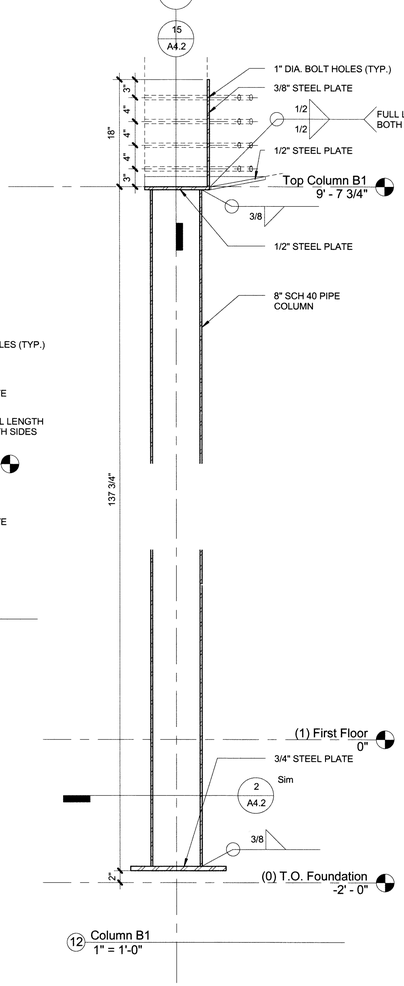
9 Column B2
1" = 1'-0"



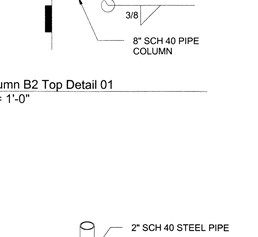
17 Column Top B2 Iso



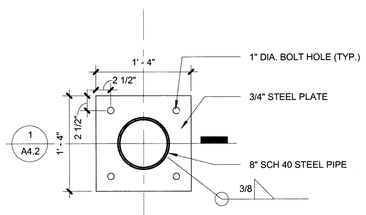
15 Column B1 Top Detail 02
1" = 1'-0"



12 Column B1
1" = 1'-0"



14 Column Top B1 Iso



2 Typical Base Plate Detail
1" = 1'-0"

NOTE: ALL STEEL FABRICATIONS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARK AREY KASTEN
REGISTERED ARCHITECT
7220
NORTH CAROLINA
NAGS HEAD, NC
06/02/16

CAHOON & KASTEN ARCHITECTS, P.C.
ARCHITECTURAL CORPORATION
51211
NORTH CAROLINA
NAGS HEAD, NC

NORTH CAROLINA
PROFESSIONAL
SEAL
027540
ENGINEER
BARRETT C. CROOK
6-1-2016

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

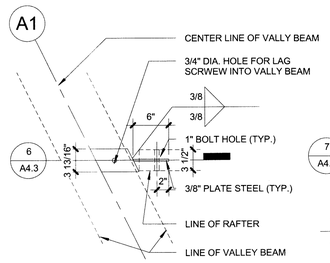
REVISIONS

No.	Description	Date

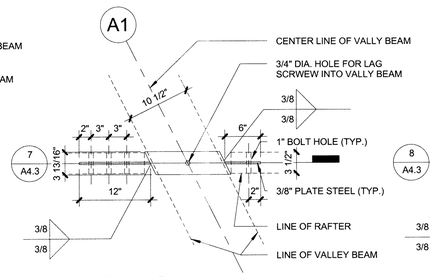
DESIGNED BY:	MAK
DRAWN BY:	MAK
DATE:	June 2, 2016
PROJECT NO:	16005RF
FILE:	

Pavilion Column Elevations & Details

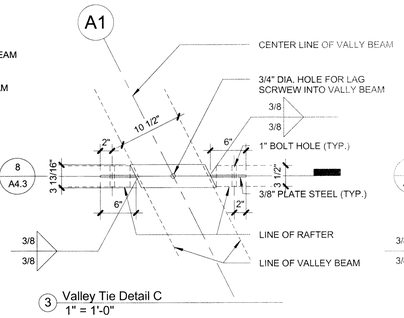
A4.2



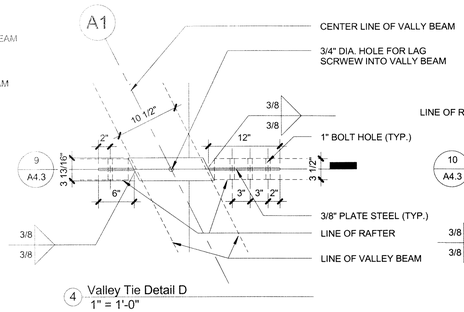
1 Valley Tie Detail A
1" = 1'-0"



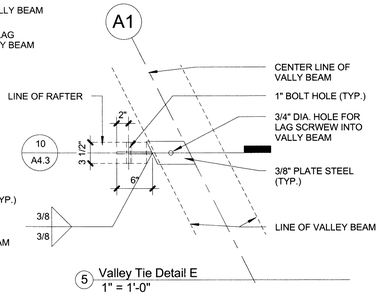
2 Valley Tie Detail B
1" = 1'-0"



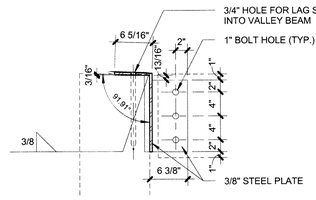
3 Valley Tie Detail C
1" = 1'-0"



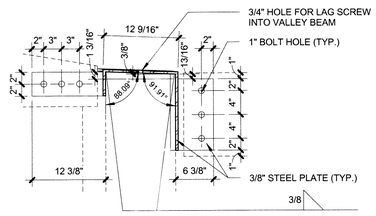
4 Valley Tie Detail D
1" = 1'-0"



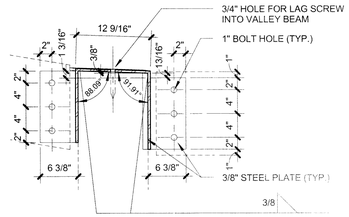
5 Valley Tie Detail E
1" = 1'-0"



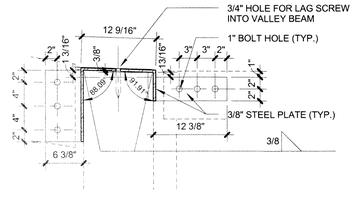
6 Valley Tie Detail A.01
1" = 1'-0"



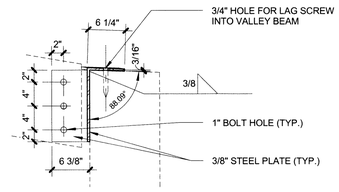
7 Valley Tie Detail B.01
1" = 1'-0"



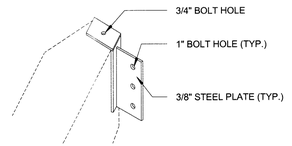
8 Valley Tie Detail C.01
1" = 1'-0"



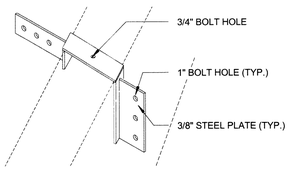
9 Valley Tie Detail D.01
1" = 1'-0"



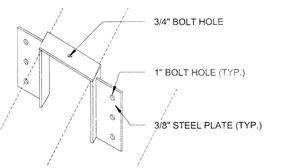
10 Valley Tie Detail E.01
1" = 1'-0"



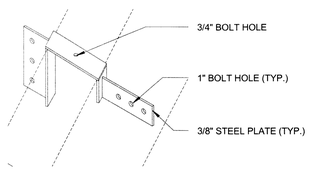
13 Valley Tie A Iso



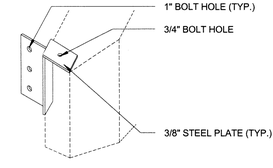
12 Valley Tie B Iso



11 Valley Tie C Iso



14 Valley Tie D Iso



15 Valley Tie E Iso

NOTE: ALL STEEL FABRICATIONS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION

cahoon+kasten
ARCHITECTS
118 West Woodhill Drive
Nags Head, North Carolina 27959
P. 252.441.0271 F. 252.441.8724
E. office@obxarchitects.com

MARK AREY KASTEN — REGISTERED ARCHITECT — 7220 — NAGS HEAD, NC
CAHOON & KASTEN ARCHITECTS, P.C. — REGISTERED ARCHITECTURAL CORPORATION — 51211 — NAGS HEAD, NC

06/02/16

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

NORTH CAROLINA PROFESSIONAL — 027540 — ENGINEER — BARRETT C. CROOM

6-1-2016

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

SCHEMATIC DESIGN
PRELIMINARY PLANS
FOR REVIEW ONLY
DO NOT USE FOR CONSTRUCTION

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN

TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS

No.	Description	Date

DESIGNED BY: MAK
DRAWN BY: MAK
DATE: June 2, 2016
PROJECT NO: 16005RF
FILE:

Pavilion Rafter Tie Details

A4.3

GENERAL NOTES

ALL HYDRANTS SHALL BE MOUNTED 36" ABOVE FINISHED GRADE UNLESS OTHERWISE SPECIFIED.

SLOPES & INVERT ELEVATIONS OF ALL PIPING SHALL BE ESTABLISHED BEFORE ANY TRENCHING OCCURS. ALL PIPING SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.

COORDINATE WITH SITE PLAN WORKING DRAWINGS BEFORE COMMENCING ANY WORK.

MAKE PROPER COLD WATER PIPING CONNECTIONS TO ALL VALVES AND HYDRANTS.

COORDINATE LOCATION OF ALL HYDRANTS & PIPING WITH ALL UTILITIES AND EXISTING CONDITIONS.

REFER TO SITE PLAN FOR EXTENT OF ALL WORK RELATED TO THE PROJECT CONTRACTOR. SHALL CALL MISS UTILITY PRIOR TO ANY EXCAVATION.

ALL COLD WATER PIPING INDICATED SHALL BE INSTALLED IN A LEVEL AND PROPERLY BEDDED TRENCH.

EXISTING SEWERS, MANHOLES, ETC., SHALL BE IDENTIFIED & VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY TRENCHING HAS BEGUN IN ORDER ALL ROUTES CAN BE ESTABLISHED & NECESSARY INVERT ELEVATIONS OBTAINED.

IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK & MATERIAL FOR A COMPLETE FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FITTINGS &/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ENGINEER) SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. NOT ALL EQUIPMENT AND APPURTENANCES ARE SHOWN. FAILURE TO FOLLOW THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDERS.

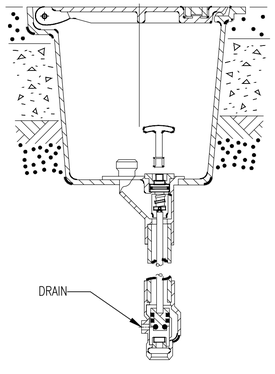
VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, HYDRANTS, ETC.

BACKFILL AND COMPACT ALL TRENCHES AS IS INDICATED IN THE 2012 IPC AND/OR NORTH CAROLINA STATEDWIDE BUILDING CODE.

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & ALL APPLICABLE LISTING REQUIREMENTS.

LEGEND & ABBREVIATIONS

——— - ———	DOMESTIC COLD WATER (DCW)
———•———	DIRECTION OF FLOW
Ⓦ	WATER METER
⋈	BALL VALVE (BV)
⊠	HOT BOX FOR RPBP
⊏———	CAPPED PIPE
———o	PIPE TURN UP
#	NEW WORK NOTE DESIGNATION
P–#	PLUMBING FIXTURE MARK
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
— — —	FUTURE PIPE LINE FOR EXPANSION

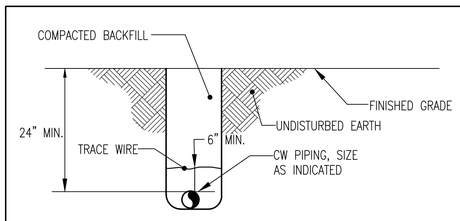


SPECIFICATIONS:
1. PROVIDE HYDRANT, BASED ON J. R. SMITH WITH 1" CONNECTION
2. PROVIDE PEA GRAVEL IN HOLE AROUND PIPE AND HYDRANT PRIOR TO BACKFILL.

FREEZELESS HYDRANT DETAIL BASED ON J.R. SMITH

MARK	DESCRIPTION	TRAP	PIPE SIZES				MOUNTING
			HW	CW	WP	VP	
P–1	FREEZELESS GROUND HYDRANT	NONE	–	1"	–	–	GROUND

GROUND HYDRANT



PIPE TRENCH DETAIL

NO SCALE

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 - www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29801 ENGINEER BRANDON E. WOOD

06-02-2016

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

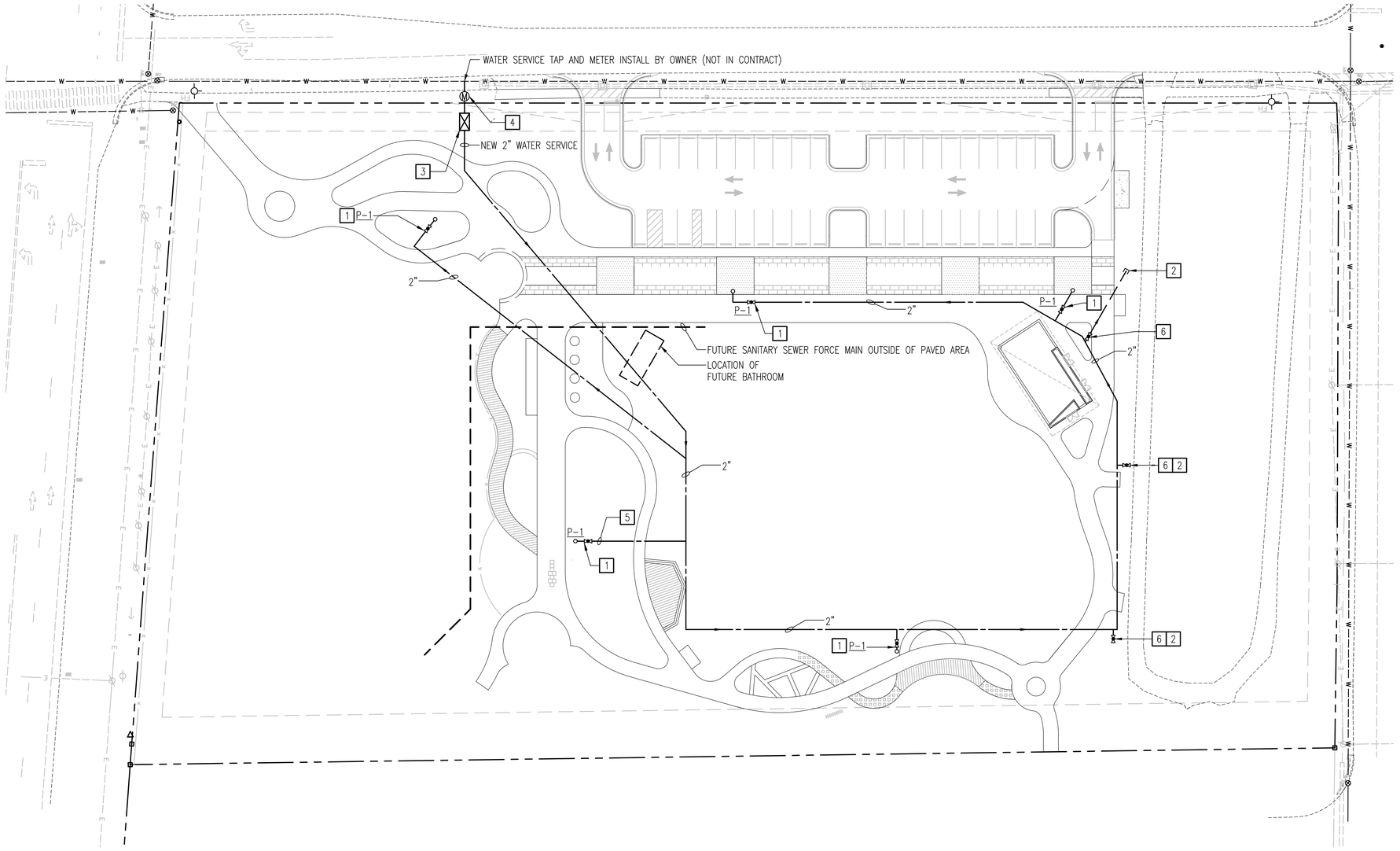
REVISIONS		
NO.	DATE	DESCRIPTION
1		
1		
1		

DESIGNED BY:	RTW
DRAWN BY:	JTS
DATE:	JUNE–2016
PROJECT NO:	16–115
FILE:	.

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

P–0.1

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-499-7233
WWW.PACE-ENGINEERING.COM



SITE PLAN

SCALE: 1" = 30'-0"

NOTES THIS SHEET

1. PROVIDE 1" IPS ISOLATION VALVE IN VALVE BOX AND CONNECT TO NEW GROUND HYDRANT.
2. PROVIDE 1" CAPPED PIPE FOR FUTURE GROUND HYDRANT.
3. PROVIDE NEW 2" RPBP IN HOT BOX.
4. PROVIDE A 2" PVC WATER SERVICE LINE FROM WATER METER TO RPBP AND ROUTE PIPE AS SHOWN TO EACH HYDRANT LOCATION.
5. ALL BRANCH LINES ARE 1" PVC TYPICAL, OR AS OTHERWISE INDICATED.
6. PROVIDE VALVE BOX WITH 1" FULL PORT VALVE. (TYPICAL)

GRAPHIC SCALES

1" = 30'-0" 30' 15' 0' 30' 60' 90'

THE TOWN OF NAGS HEAD 1961 NAGS HEAD N.C.

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN

CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29801 ENGINEER BRANDON E. WOOD

06-02-2016

DOWDY PARK - PHASE 1

SITE DEVELOPMENT PLAN

TOWN OF NAGS HEAD, NC

3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1		

DESIGNED BY:	RTW
DRAWN BY:	JTS
DATE:	JUNE-2016
PROJECT NO:	16-115
FILE:	.

Pace COLLABORATIVE
MECHANICAL, ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-499-7223
WWW.PACE-ENGINEERING.COM

SITE PLAN

P-1.0

GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL, STRUCTURAL, ARCHITECTURAL, AND LANSCAPE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

ELECTRICAL SERVICE: PROVIDE THE ELECTRICAL SERVICE. COMMUNICATE WITH THE LOCAL POWER COMPANY, VERIFY ALL REQUIREMENTS, AND COORDINATE ALL EFFORTS.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, AND MOTOR-DISCONNECT SWITCHES. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

WIRING DEVICES: LABEL ALL WIRING DEVICES WITH PANELBOARD AND CIRCUIT DESIGNATION PERMANENTLY ATTACHED WITH BLACK TYPED DESIGNATION ON CLEAR TAPE.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION CLEARLY IDENTIFIED.

CONDUCTORS: IN SITUATIONS WHERE CONDUCTOR SIZES AND/OR QUANTITIES OF PARALLEL SETS HAVE BEEN INCREASED DUE TO VOLTAGE DROP OR FOR OTHER REASONS, CONTRACTOR SHALL PROVIDE THE APPROPRIATE LUG SIZES/QUANTITIES WITHIN THE EQUIPMENT CONNECTED (PANELBOARD, DISCONNECT SWITCH, LUMINAIRE, ETC.) TO PERMIT SATISFACTORY CONNECTION OF THE INDICATED CONDUCTORS. WHERE SUFFICIENT LUG SIZES AND/OR QUANTITIES CANNOT BE PROVIDED TO ACCOMMODATE THE CONDUCTORS INDICATED, THEN PROVIDE REDUCING ADAPTERS, PIN TERMINALS, OR A JUNCTION BOX TO SPLICE LARGER CONDUCTORS TO APPROPRIATELY SIZED SMALLER CONDUCTORS TO FIT INTO THE LUGS PROVIDED. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH PIPING ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO INSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES AND RECEPTACLES WITH OTHER WALL MOUNTED DEVICES.

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

ELECTRICAL LEGEND

LIGHTING

- FLUORESCENT OR LED LIGHTING FIXTURE
- DOWNLIGHT OR PENDANT MOUNTED FIXTURE
- AREA SITE LIGHTING FIXTURE
- FLOOD LIGHTING FIXTURE
- BOLLARD LIGHTING FIXTURE
- (A) LIGHTING FIXTURE TYPE SYMBOL. SEE LIGHTING FIXTURE DETAILS.
- S SINGLE POLE SWITCH, 20A, 120/277V, 46" AFF UON
- S_D DIMMER SWITCH, 46" AFF UON. FOR INCANDESCENT FIXTURES, PROVIDE 1500W, 120V SWITCH. FOR FLUORESCENT OR L.E.D. FIXTURES, COORDINATE VOLTAGE AND RATINGS OF SWITCH WITH TYPE AND QUANTITY OF BALLASTS OR DRIVERS TO BE CONTROLLED.
- [LC-P] LIGHTING CONTACTOR
- [TC] TIME CLOCK
- (P) PHOTOCELL, 1500W, 120V SPST, MOUNT ON ROOF, AIM NORTH

POWER

RECEPTACLES SHALL BE TAMPER RESISTANT, (TYP, UON).
THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:

- GFI: GROUND FAULT INTERRUPTING TYPE RECEPTACLE
- WP: WEATHER RESISTANT GFI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.

- DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON
- SPECIAL RECEPTACLE, AS NOTED ON PLANS
- [GFI] HEAT TAPE CONNECTION, CLASS B GFI DEVICE WITH PUSH TO TEST AND RESET BUTTONS WITH WEATHER PROOF COVER. CONNECT AHEAD OF HEAT TRACE THERMOSTAT.
- (E) EQUIPMENT CONNECTION
- (J) JUNCTION BOX
- ELECTRICAL PANELBOARD
- MOTOR CONNECTION
- SAFETY SWITCH, 60A-3P, FU @ 30A, 3R
  - SWITCH RATING
  - NUMBER OF POLES
  - FUSE RATING (NF INDICATES NON-FUSED)
  - NEMA ENCLOSURE IF OTHER THAN NEMA 1

AND — ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR IN 3/4" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC SHOULD MULTI-WIRE BRANCH CIRCUITS BE INSTALLED. CONDUIT LARGER THAN 3/4" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.

- [HH] [HH2] HANDHOLE - SEE COMPOSITE/FIBERGLASS HANDHOLE DETAIL ON SHEET E-0.2 FOR REQUIREMENTS
- [KH] IN GROUND WEATHERPROOF OUTLET FOR KIOSK - REFER TO DETAIL SHEET E-0.2

GENERAL

ENLARGED PLAN NOTATION
ENUMERATION: # = ENLARGED PLAN
SHEET WHERE PLAN IS SHOWN

[1] NEW WORK NOTE SYMBOL

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AV	AUDIO VISUAL
BFG	BELOW FINISHED GRADE
C	CONDUIT
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CBCP	CENTER BEAM CANDLE POWER
DNCP	DOMINION NORTH CAROLINA POWER
EBU	EMERGENCY BATTERY UNIT
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FHP	FRACTIONAL AC HORSEPOWER
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER/HEAT PUMP
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILO-VOLT-AMPERES
KW	KILO-WATTS
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PCP	PUMP CONTROL PANEL
PF	POWER FACTOR
ø	PHASE
PRI	PRIMARY
SE	SERVICE ENTRANCE
SEC	SECONDARY
TBB	TELEPHONE BACKBOARD
TRT	TRIPLE TUBE FLUORESCENT LAMP
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
W	WATTS/WIRE
WG	WIREGUARD
WP	WEATHERPROOF

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS	NO.	DATE	DESCRIPTION
	-	-	-

DESIGNED BY: RTW
DRAWN BY: JTS
DATE: JUNE-2016
PROJECT NO: 16-115
FILE: .

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

E-0.1

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-499-7223
WWW.PACE-ENGINEERING.COM

PANELBOARD MDP SCHEDULE

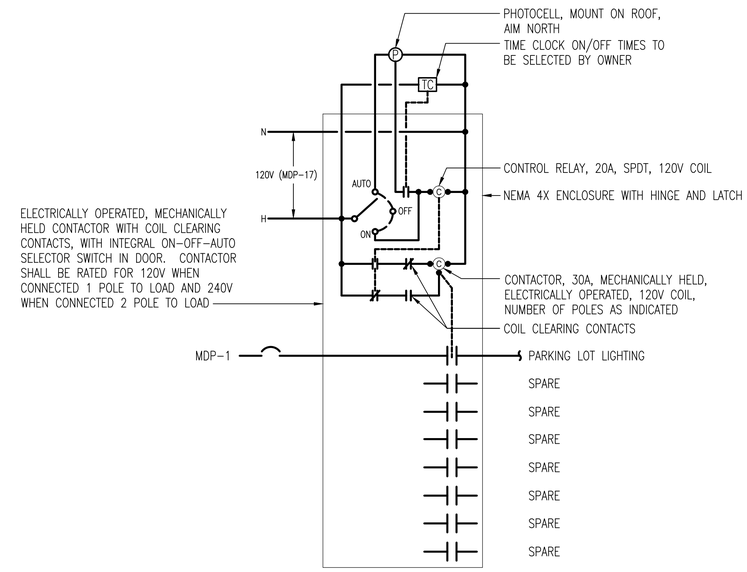
SEE POWER RISER DIAGRAM FOR RATINGS

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR TRIP	CKT NO.	PHASE A	PHASE B	CKT NO.	BKR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED
PARKING LOT LIGHTING	3.5		20/1P	1			2	20/1P	3.0		STAGE RECEPTACLES
EXTERIOR LIGHTING		7.1	20/1P	3			4	20/1P		3.0	STAGE RECEPTACLES
LIGHTING	1.5		20/1P	5			6	20/1P	3.0		STAGE RECEPTACLES
HOT BOX		1.0	20/1P	7			8	20/1P		3.0	STAGE RECEPTACLES
KIOSK HANDHOLE*	3.0		20/1P	9			10	20/1P	3.0		STAGE RECEPTACLES
KIOSK HANDHOLE*		3.0	20/1P	11			12	20/1P		3.0	STAGE RECEPTACLES
KIOSK HANDHOLE*	3.0		20/1P	13			14	20/1P	3.0		STAGE RECEPTACLES
KIOSK HANDHOLE*		3.0	20/1P	15			16	20/1P		4.5	RECEPTACLES
LIGHTING CONTROLS	1.0		20/1P	17			18	20/1P			SPARE
SPARE			20/1P	19			20	20/1P			SPARE
SPARE			20/1P	21			22	20/1P			SPARE
SPARE			20/1P	23			24	20/1P			SPARE
SPARE			20/1P	25			26	20/1P			SPARE
SPARE			20/1P	27			28	20/1P			SPARE
SPARE			20/1P	29			30	20/1P			SPARE
SPARE			20/2P	31			32	50/2P		20.0	BAND BOX
									20.0		
SPARE			20/2P	35			36	50/2P		20.0	BAND BOX
									20.0		
IRRIGATION PUMP		17.0	30/2P	39			40	50/2P		20.0	BAND BOX
	17.0								20.0		
TOTAL	29.0	31.1							72.0	73.5	TOTAL
TOTAL CONNECTED AMPS A: 101.0 B: 104.6											

*PROVIDE GFI-TYPE CIRCUIT BREAKER.

ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
LIGHTING	0.2 KVA	125%	0.2 KVA
EXTERIOR LIGHTING	1.3 KVA	100%	1.3 KVA
RECEPTACLES	16.5 KVA	100%	16.5 KVA
MISCELLANEOUS	2.3 KVA	125%	2.9 KVA
TOTAL	20.2 KVA		20.8 KVA



EXTERIOR LIGHTING CONTACTOR DETAIL - "LC-P"

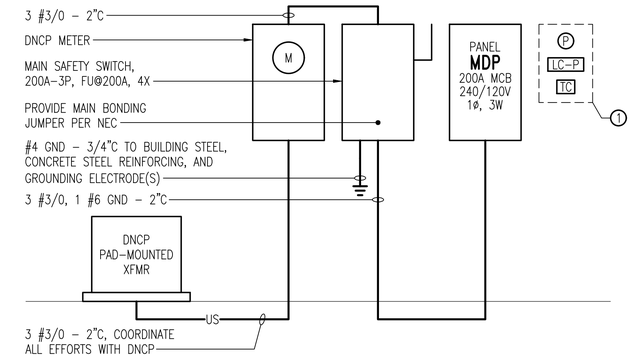
NO SCALE

FAULT CURRENT NOTE:

PROVIDE 240/120V EQUIPMENT WITH A SHORT CIRCUIT RATING OF 22 KAIC, UON. CONTACT THE LOCAL POWER COMPANY PRIOR TO SUBMITTING SHOP DRAWINGS AND IF THE AVAILABLE FAULT CURRENT IS LESS THAN OR MORE THAN THIS AMOUNT, THEN NOTIFY THE OWNER IN WRITING AND PROVIDE APPROPRIATE POWER EQUIPMENT.

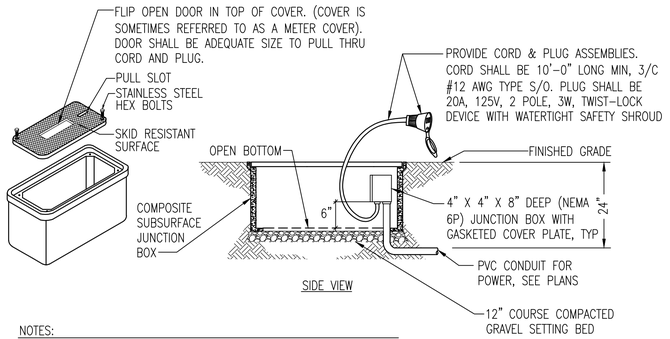
ONE-LINE DIAGRAM NOTES

1. REFER TO LIGHTING CONTACTOR DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.



ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

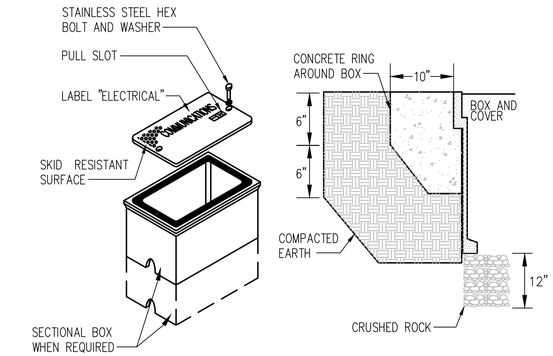


NOTES:

1. NOMINAL INSIDE DIMENSIONS: 24"W X 24"L X 18"D MINIMUM (BOX EXTENSIONS ARE ACCEPTABLE AS NECESSARY TO OBTAIN REQUIRED DEPTH)
2. CONSTRUCTED OF POLYMER CONCRETE OR REINFORCED FIBERGLASS
3. LOAD DESIGN: 8000 LB LOAD OVER A 10" SQUARE
4. DETAIL BASED ON HUBBELL/QUAZITE.

IN GROUND WEATHERPROOF OUTLET FOR KIOSK (KH)

NO SCALE



HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA FOR HEAVY DUTY, H20 LOADING.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. HH HANDHOLE SHALL BE 12" X 24" X 24" DEEP.
   HH2 HANDHOLE SHALL BE 36" X 36" X 36" DEEP.

COMPOSITE/FIBERGLASS HANDHOLE DETAIL (HH/HH2)

NO SCALE

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS NO.	DATE	DESCRIPTION
1		

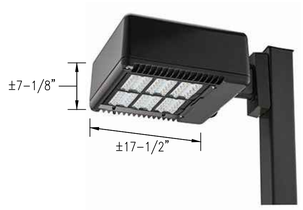
DESIGNED BY: RTW
DRAWN BY: JTS
DATE: JUNE-2016
PROJECT NO: 16-115
FILE: .

ONE-LINE DIAGRAM AND DETAILS

E-0.2

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA • 757-499-7223
WWW.PACE-ENGINEERING.COM

ALTERNATE #4



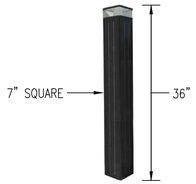
LUMINAIRE REQUIREMENTS

1. HOUSING: SINGLE PIECE DIE-CAST ALUMINUM, FULLY GASKETED.
2. DRIVER: 700mA, POWER FACTOR >90% AND THD <20%.
3. LEDS: HIGH-EFFICACY, MOUNTED TO A METAL-CORE CIRCUIT BOARD AND ALUMINUM HEAT SINK, 70 CRI MINIMUM.
4. OPTICS: PRECISION-MOLDED ACRYLIC LENSES. PROVIDE IES TYPE-IV DISTRIBUTION.
5. FINISH: THERMOSET POWDER COATING FOR RESISTANCE TO CORROSION AND WEATHERING. FINISH SELECTION SHALL BE BY ARCHITECT/TOWN ENGINEER.
6. RATINGS: UL LISTED FOR WET LOCATIONS. ENCLOSURE CLASSIFIED IP66 PER IEC 529 AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.
7. PROVIDE MOUNTING HARDWARE AS REQUIRED.

DETAIL BASED ON LITHONIA LIGHTING, "KAD LED" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X1	8370	4000K LED	(2) AT 69	MULTI 120-277	POLE MOUNT, ±25'-0" AFG - SEE POLE AND CONCRETE BASE DETAIL THIS SHEET

LED AREA LUMINAIRE



LUMINAIRE DESCRIPTION:

1. MATERIAL: ANODIZED ALUMINUM SUITABLE FOR MARINE ENVIRONMENTS, DESIGNED TO BE CORROSION AND VANDAL RESISTANT.
2. CONSTRUCTION: UTILIZE 316-SS HARDWARE FOR ALL CONNECTION POINTS. BATTERY TERMINALS SHALL BE COATED IN SILICONE. PROVIDE GLASS-LESS SOLAR PANEL RESIN TO RESIST UV DEGRADATION AND YELLOWING.
3. OPTICS: 270-DEGREE DISTRIBUTION.
4. RUNTIME: 4-HOURS AT 100%, 8-HOURS OFF, 2-HOURS AT 100%. COORDINATE FINAL RUNTIMES WITH OWNER PRIOR TO RELEASE OF LUMINAIRES FOR PRODUCTION. BASE BID SHALL ACCOMMODATE ANY OF THE STANDARD RUNTIMES OFFERED BY THE MANUFACTURER.
5. FINISH: COORDINATE SELECTION WITH ARCHITECT/TOWN ENGINEER.
6. UL LISTED FOR WET LOCATIONS. BOLLARD HEAD SHALL BE IP66 RATED.

DETAIL BASED ON EMBER LED (VALEN LIGHT), "VERTAIC BOLLARD" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X2	1100	4000K LED	15.4	-	SURFACE MOUNT ON CONCRETE BASE - SEE DETAIL THIS SHEET. ORIENT BOLLARD TO MAXIMIZE ILLUMINANCE OF PATHWAYS

EXTERIOR SOLAR POWERED LED BOLLARD

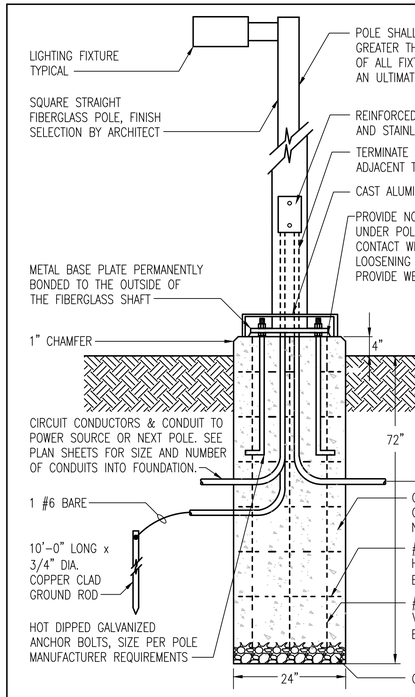
LUMINAIRE DESCRIPTION:

1. MATERIAL: CAST ALUMINUM, CLEAR GLASS.
2. OPTICS: 11"x11" SEALED BASE OPTIC.
   2.1. PROVIDE OPTIONAL FULL SHIELDING VISOR, FINISH TO MATCH LUMINAIRE.
   2.2. PROVIDE (1) 10"x60" AND (1) 40"x40" LIGHT SHAPING DIFFUSER FOR EACH LUMINAIRE.
3. FINISH: COORDINATE SELECTION WITH ARCHITECT/TOWN ENGINEER.
4. INTEGRAL STANDARD DIMMING LED DRIVER.
5. UL LISTED FOR WET LOCATIONS.
6. ADJUSTABLE UP TO 190° VERTICAL AND 358° HORIZONTAL.

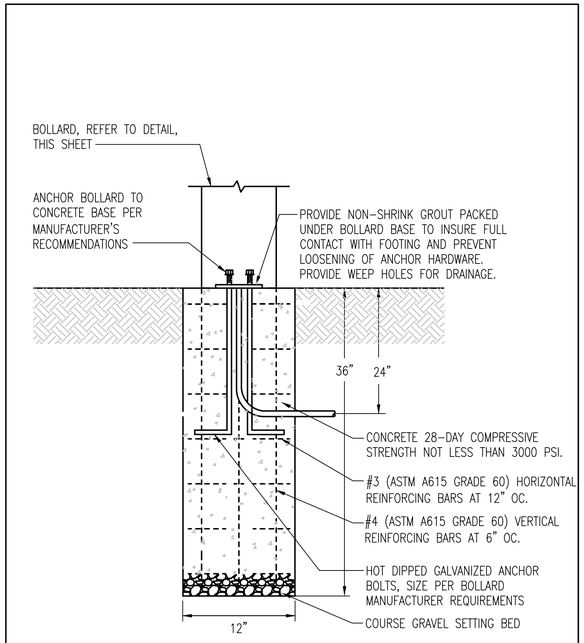
DETAIL BASED ON ECOSENSE LIGHTING, "ECOSPEC FLOODLIGHT WASH" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X3	2653	4000K LED	50	120	SURFACE, ROOF - AIM TO MAXIMIZE ILLUMINANCE OF PAVILION AREA

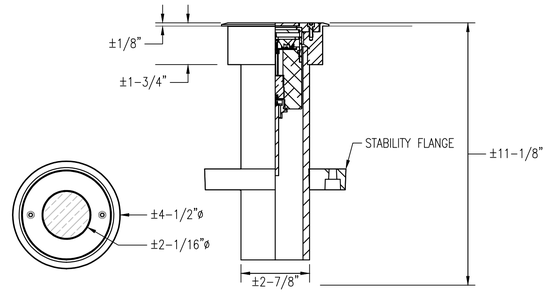
EXTERIOR LED INDIRECT LUMINAIRE



POLE AND CONCRETE BASE DETAIL



CONCRETE BOLLARD BASE DETAIL



LUMINAIRE DESCRIPTION:

1. MATERIAL: STAINLESS STEEL COVER, SCHEDULE-80 PVC HOUSING SUITABLE FOR DIRECT BURIAL IN SOIL OR CONCRETE.
2. OPTICS: WIDE FLOOD. PROVIDE SHOCK RESISTANT, TEMPERED GLASS LENS.
3. FINISH: BLACK.
4. PROVIDE REMOTE DIMMING LED DRIVER(S) AS REQUIRED IN MINIMUM NEMA 3R ENCLOSURE.
5. UL LISTED FOR WET LOCATIONS.
6. UTILIZE WATERTIGHT CONNECTORS PER MANUFACTURER'S RECOMMENDATIONS.

DETAIL BASED ON BK LIGHTING, "ARTISTAR RECESSED UPLIGHT" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X4	1300 CBCP	4000K LED	7	120	SURFACE MOUNT IN TOP OF COLUMN, COORD. WITH ARCH PLANS/ELEVATIONS

EXTERIOR RECESSED LED LUMINAIRE

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1		

DESIGNED BY:	RTW
DRAWN BY:	JTS
DATE:	JUNE-2016
PROJECT NO:	16-115
FILE:	.

LIGHTING DETAILS

E-0.3

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA • 757-499-7223
WWW.PACE-ENGINEERING.COM

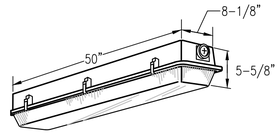
LUMINAIRE DESCRIPTION:

1. FLEXIBLE FLAT CONDUCTOR STRIP ENCASED IN RECTANGULAR IP65 MOLDED JACKET.
2. LEDS SHALL BE 4000K, 80 CRI MINIMUM.
3. PROVIDE MOUNTING HARDWARE, SILICONE SEALANT, AND END CAPS AS REQUIRED.
4. PROVIDE COMPATIBLE 120VAC-12VDC ELECTRONIC POWER SUPPLIES, SPLITTERS, AND DIMMING MODULES IN NEMA 3R ENCLOSURES (QUANTITIES AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM).
5. UL LISTED FOR WET LOCATIONS.

DETAIL BASED ON CONTECH LIGHTING, "TLTO12V2 16CR" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X5	109/FT	4000K LED	1.8W/FT	120/12	MOUNT USING MANUFACTURER'S SUPPLIED HARDWARE, AIM TO WASH WALLS BELOW

EXTERIOR LED TAPE LIGHT STRIP



LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE FORMED FROM HIGH IMPACT RESISTANT, UV STABILIZED REINFORCED POLYESTER FIBERGLASS. PROVIDE AN INTERNALLY MOUNTED STEEL CHANNEL TO HOUSE THE BALLAST AND TO MOUNT LAMP SOCKETS. STEEL SHALL BE 0.026" THICK (MINIMUM), CHEMICALLY TREATED FOR RUST PREVENTION, AND PAINTED WITH A BAKED WHITE ENAMEL FINISH.
2. FIXTURE SHALL BE FULLY GASKETED AND UL APPROVED FOR WET LOCATIONS.
3. FIXTURE SHALL BE CAPABLE OF CONTINUOUS ROW AND SINGLE UNIT PLACEMENT WITH PENDANT OR SURFACE MOUNTING.
4. LENS SHALL BE A HIGH IMPACT ACRYLIC DIFFUSER WITH STAINLESS STEEL CAPTIVE LATCHES TO SECURE THE DIFFUSER TO THE HOUSING.
5. BALLAST SHALL BE ELECTRONIC, HIGH POWER FACTOR (≥ .90), WITH A THD <20%, AND DESIGNED FOR LOW TEMPERATURE STARTING.

DETAIL BASED ON LITHONIA LIGHTING, "DMW" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
X6	2	F32W T8	60	120	SURFACE, CEILING

WET LOCATION FLUORESCENT

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

DOWDY PARK - PHASE 1

SITE DEVELOPMENT PLAN

TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

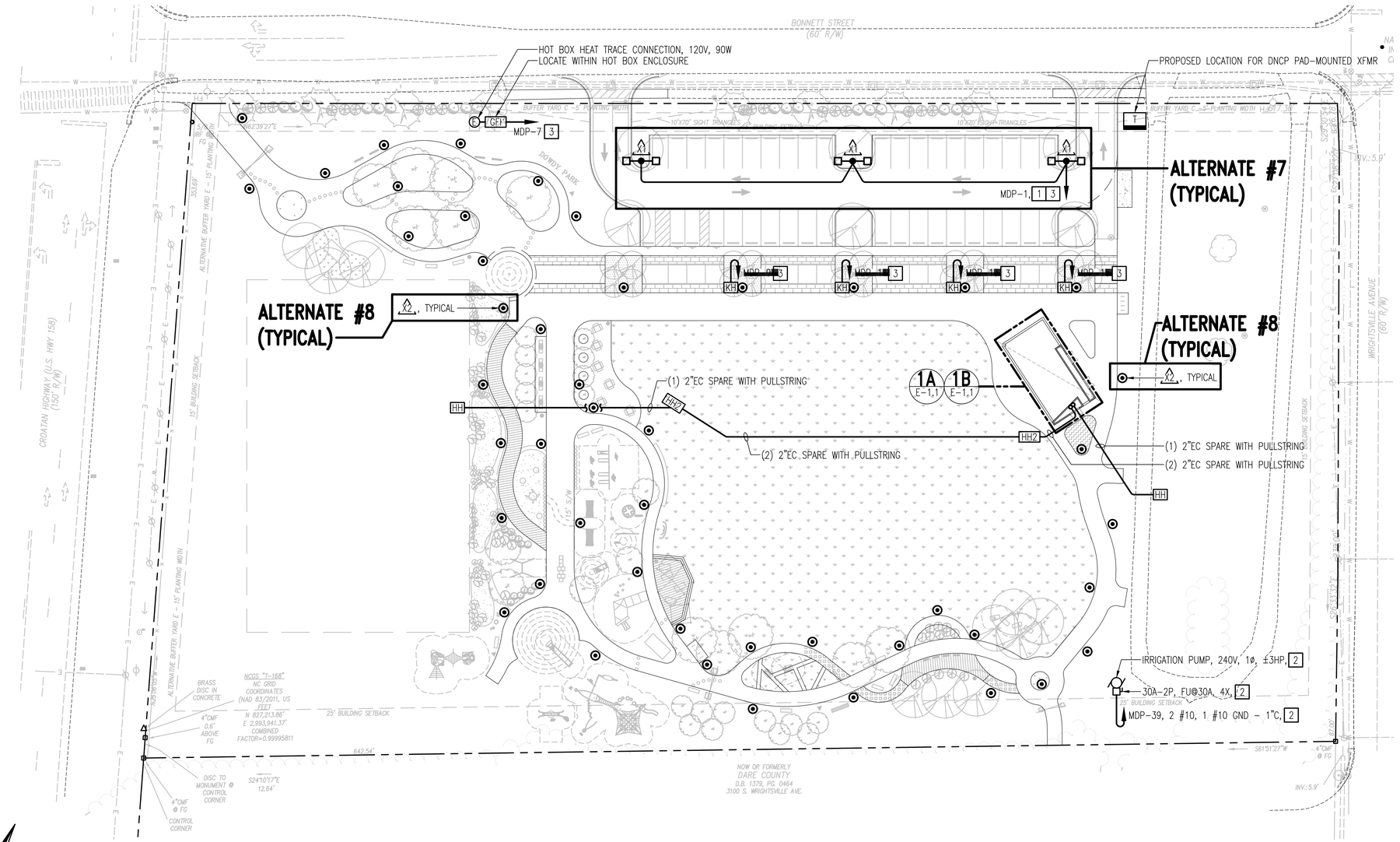
REVISIONS		
NO.	DATE	DESCRIPTION
1	1	1

DESIGNED BY: RTW
DRAWN BY: JTS
DATE: JUNE-2016
PROJECT NO: 16-115
FILE: .

LIGHTING DETAILS

E-0.4

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-499-7223
WWW.PACE-ENGINEERING.COM



SITE PLAN
SCALE: 1" = 30'-0"

NOTES THIS SHEET

1. ROUTE CIRCUIT VIA LIGHTING CONTACTOR "LC-P".
2. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OR ORDERING OF EQUIPMENT.
3. 2 #10, 1 #10 GND - 3/4"C.

GRAPHIC SCALES

1" = 30'-0" (30' 15' 0' 30' 60' 90')

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN
CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-499-7223
WWW.PACE-ENGINEERING.COM

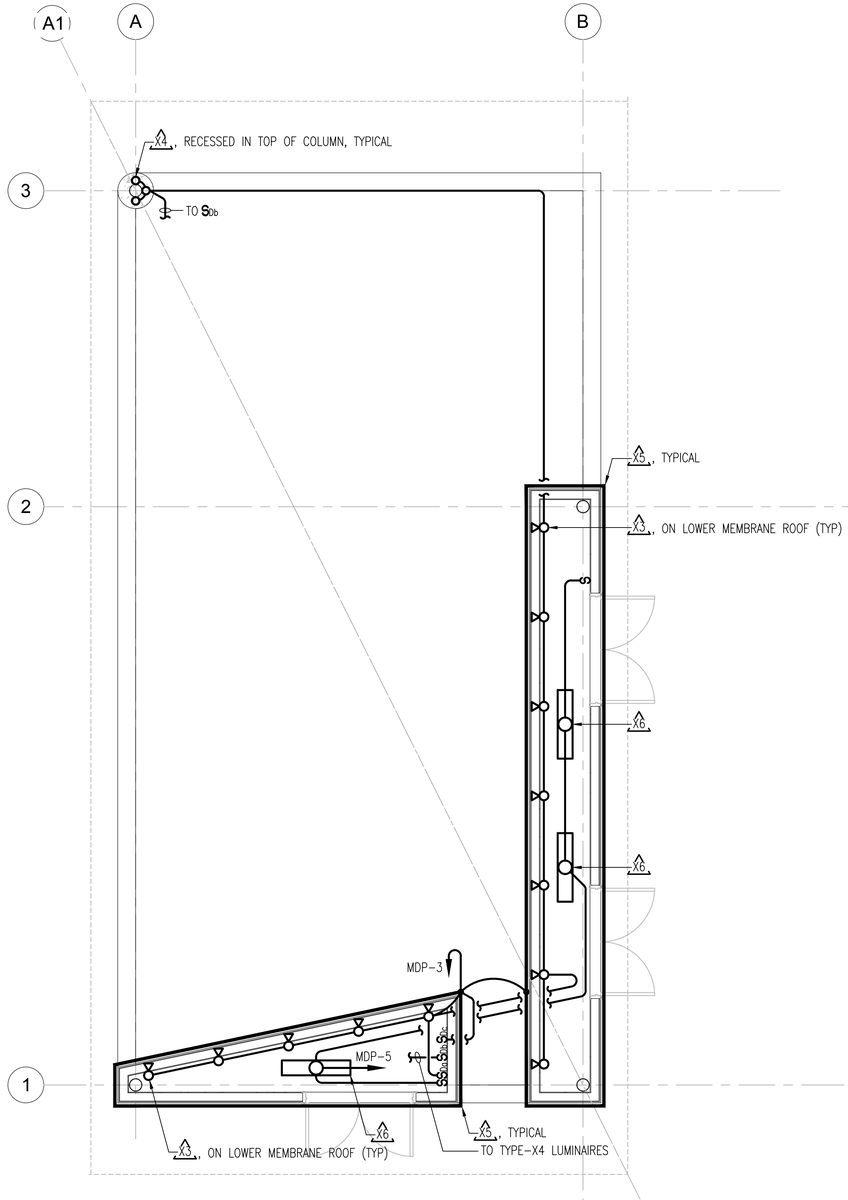
DOWDY PARK - PHASE 1
SITE DEVELOPMENT PLAN
TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
1	-	-

DESIGNED BY:	RTW
DRAWN BY:	JTS
DATE:	JUNE-2016
PROJECT NO:	16-115
FILE:	.

SITE PLAN

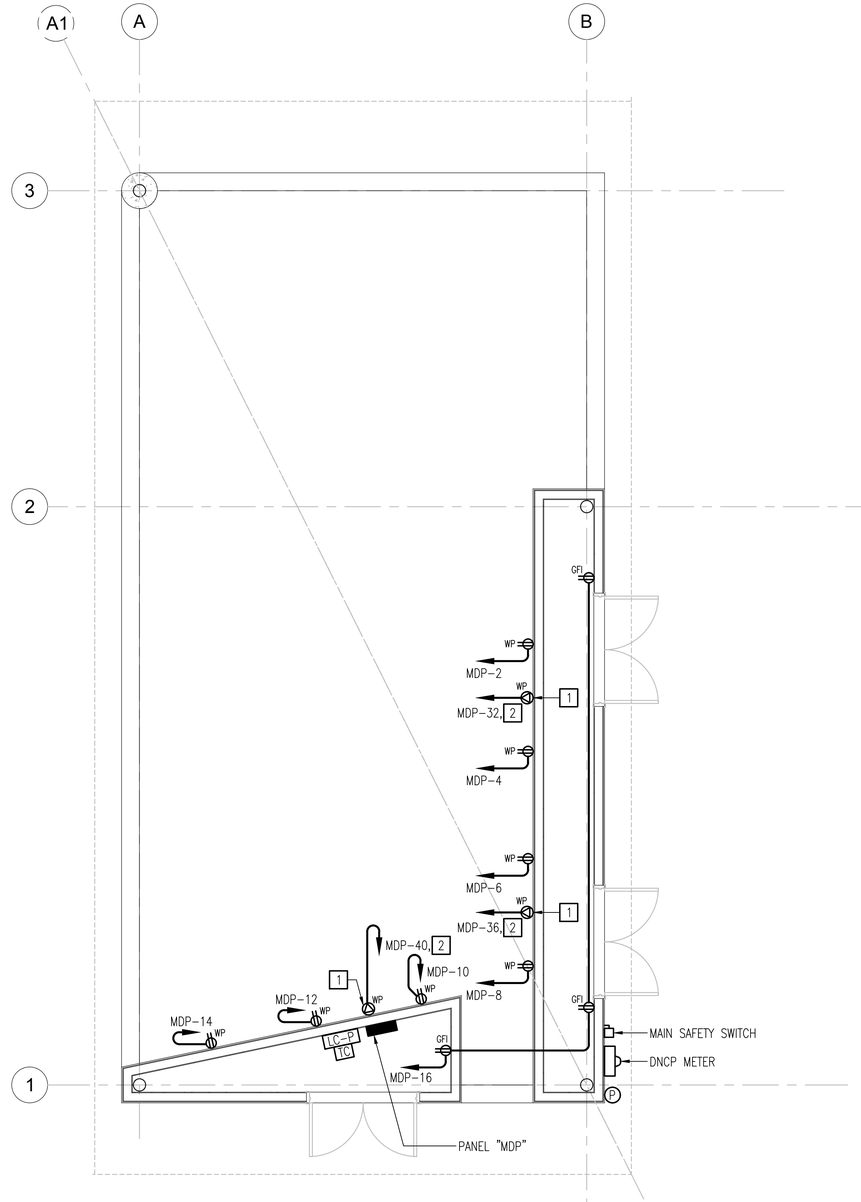
E-1.0



PAVILION PLAN – LIGHTING

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

1A / E-1.1



PAVILION PLAN – POWER

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

1B / E-1.1

GENERAL NOTE:

TO THE EXTENT POSSIBLE, ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE RUN UNDER SLAB. EXPOSED CONDUITS WITHIN THE PAVILION AREAS SHALL BE AVOIDED WHEREVER POSSIBLE.

NOTES THIS SHEET

1 NEMA 14-50R RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.

2 3 #8, 1 #10 GND – 3/4"C.

GRAPHIC SCALES

1/4" = 1'-0" 5' 0' 5' 10'

THE TOWN OF NAGS HEAD N.C. 1961

TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov

CLH DESIGN

CLH Design, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

NORTH CAROLINA PROFESSIONAL SEAL 29538 ENGINEER JAMES S. BEDDIS
06-02-2016

DOWDY PARK - PHASE 1

SITE DEVELOPMENT PLAN

TOWN OF NAGS HEAD, NC
3005 SOUTH CROATAN HIGHWAY

REVISIONS		
NO.	DATE	DESCRIPTION
-	-	-

DESIGNED BY:	RTW
DRAWN BY:	JTS
DATE:	JUNE-2016
PROJECT NO:	16-115
FILE:	.

Pace COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA • 757-499-7223
WWW.PACE-ENGINEERING.COM

PAVILION PLANS

E-1.1