

MARTIN LUTHER KING JR. PARK

90% CONSTRUCTION DOCUMENTS



MLK JR PARK | CARRBORO, NC

90% CD : ILLUSTRATIVE RENDERING

60% PLAN PRESENTED AT MARCH 21 BOA MEETING



MLK JR PARK | CARRBORO, NC
60% DD : ILLUSTRATIVE RENDERING

PUMP TRACK COMMUNITY INPUT MEETING - MAY 15



MLK JR PARK | CARRBORO, NC
PUMP TRACK LAYOUT : OPTION A



MLK JR PARK | CARRBORO, NC
PUMP TRACK LAYOUT : OPTION B



MLK JR PARK | CARRBORO, NC
PUMP TRACK LAYOUT : OPTION C



MLK JR PARK | CARRBORO, NC 90% CD : PUMP TRACK INPUT

PUMP TRACK LAYOUTS PRESENTED AT MAY 15 COMMUNITY MEETING



OPTION A FEEDBACK:

- LIKE THE PLAYGROUND NEAR THE GARDEN
- DO NOT KEEP PUMP TRACKS NEAR EACH OTHER
- LIKE BOTH IN THE WOODS FOR SHADE
- CONCERNED ABOUT PROXIMITY TO NEIGHBORS
- LIKE BEGINNER TRACK CLOSER TO ROAD (WITH FENCE) AND GARDEN SO PARENTS CAN HEAR IF KID IS HURT.
- WAS UNDECIDED, BUT NOW BELIEVE THIS WILL BE A POSITIVE ADDITION TO CARRBORO PARKS. LIKE PUMP TRACKS NEAR EACH OTHER AND NEAR GARDEN.
- LIKE OPTION A - BETTER EXPERIENCE FOR KIDS WITH BOTH TRACKS TOGETHER.
- OPTION A IS TOO CLOSE TO THE NEARBY HOUSES.
- LIKE THE TWO TRACKS VISIBLE FROM EACH OTHER.
- CAN WE ADD SMALL SKILLS STATIONS?
- LIKE OPTION A - CLUSTERS KIDS' ACTIVITIES ON ONE SIDE OF PARKING LOT.

- LIKE PLAYGROUND NEAR GARDEN AND PUMP TRACKS CLOSE TO EACH OTHER.
- MAKE ONE PUMP TRACK VIEWABLE FROM THE OTHER.
- SHADE THE PUMP TRACKS.
- CONSIDER SHIFTING PARKING TO PUT ALL NEAR EACH OTHER ON THE SAME SIDE OF PARKING.
- LOVE ALL OPTIONS - NICE BALANCE OF OPEN AND STRUCTURED SPACES. IT'S NICE TO HAVE THE TRACKS ADJACENT.
- ADD A PATH TO CONNECT FROM HILLSBOROUGH
- SHETLEY PROPERTY WAS NOT VETTED THROUGH THE PUBLIC PROCESS LIKE THE PARK LAND.
- I LIKE BOTH IN THE WOODS FOR SHADE.



PUMP TRACK LAYOUTS PRESENTED AT MAY 15 COMMUNITY MEETING



OPTION B FEEDBACK:

- DON'T LIKE SEPARATION OF PLAYGROUND
- A FENCE AROUND THE ENTIRE PARK WOULD LIMIT THE PUMP TRACKS FROM TAKING OVER ALL THE WOODS AND BIKING INTO THE NEIGHBORHOOD



PUMP TRACK LAYOUTS PRESENTED AT MAY 15 COMMUNITY MEETING



OPTION C FEEDBACK:

- I PREFER THIS PLAN. CAN WE TRY OUT THE BEGINNER TRACK BEFORE INVESTING IN A LARGER ONE?
- LOVE THE DESIGN AND CANNOT WAIT FOR GROUND BREAKING.
- OPTION C IS MY PREFERRED. A IS ALSO FINE BUT ONLY IF IT IS ON THE SAME TIME LINE AS THE CURRENT MLK PLANS.
- MOVE PARKING DOWN AND PUT ALL PUMP TRACKS TOGETHER.
- THERE WASN'T A PROPER PROCESS FOR THE SHETLEY PROPERTY.
- DON'T THINK SENIORS WILL USE THE EXERCISE STATIONS.
- I'M WORRIED ABOUT THE YOUNGER FOLKS SCOOTING ACROSS THE PARKING LOT TO REACH THE ADDITIONAL BIKE FACILITIES.
- DON'T LIKE SEPARATION OF TWO TRACKS.



90% CD'S - WITH PREFERRED PUMP TRACK LOCATIONS



RAINWATER HARVESTING



AMPHITHEATER SEATING



YOUTH CYCLING AREA



EXERCISE STATIONS



NATURAL PLAYGROUND



POLLINATOR GARDENS



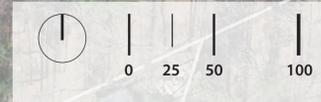
GREEN ROOF



CONSTRUCTED WETLAND



HILLSBOROUGH ROAD
DOVE STREET



90% CD'S - NATURAL PLAYGROUND DETAILS



1 EMBANKMENT SLIDE



2 HOPPING LOGS



3 WATER PLAY



4 CLIMBING LOGS



5 BALANCING LOGS



6 SEESAW



7 WILLOW TUNNEL



8 BIRD'S NEST SWING

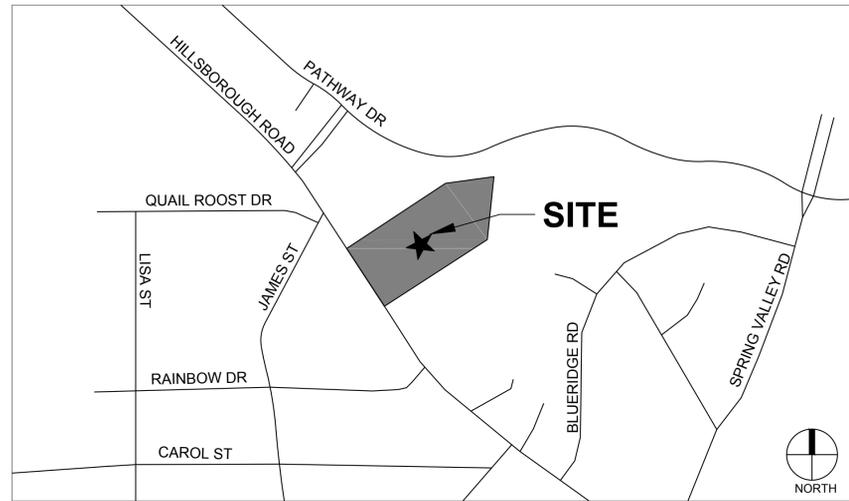


MARTIN LUTHER KING, JR PARK

1120 HILLSBOROUGH RD
CARRBORO, NC 27516

TOWN OF CARRBORO
LAND USE PERMIT

SUBMITTED ON MAY 1, 2017



VICINITY MAP
SCALE: 1" = 500'



SUMMARY INFORMATION	
PROJECT NAME:	MARTIN LUTHER KING, JR PARK
SITE ADDRESS:	1120 HILLSBOROUGH ROAD
COUNTY:	ORANGE
PARCEL PIN #:	9779-31-1977
PARCEL OWNER:	TOWN OF CARRBORO
PARCEL AREA:	10.12 Ac
TOTAL DISTURBED/ PROJECT AREA:	6.03 Ac
CURRENT ZONING:	R-15
EXISTING LAND USE:	PARK
PROPOSED USE:	PARK
RIVER BASIN:	CAPE FEAR ; JORDAN LAKE (UNPROTECTED)
CONSTRUCTION TYPE:	PARK
MAX BUILDING HEIGHT:	35'-0"
PROPOSED BUILDING HEIGHT:	13'-0"
EXISTING IMPERVIOUS AREA:	10,197 S.F.
PROPOSED IMPERVIOUS AREA:	22,053 S.F.
OVERALL PARKING SUMMARY	
REQUIRED PARKING	30 BASED UPON PARK USAGE
PROVIDED PARKING	30 TOTAL
REGULAR 9'X18' SPACES	28
HANDICAP ACCESSIBLE SPACES	2
BIKE PARKING	6
UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
6" SEWER SERVICE	452 LF
PRIVATE WATER	
4" WATER MAIN	403 LF
8" FIRE LINE	179 LF

SHEET INDEX	
SHEET #	SHEET NAME
C0.00	COVER SHEET
C1.00	EXISTING CONDITIONS
C2.00	DEMOLITION PLAN
C3.00	SITE PLAN
C3.01	PLAYGROUND ENLARGEMENT
C4.00	EROSION CONTROL NOTES
C4.01	EROSION CONTROL PHASE 1
C4.02	EROSION CONTROL PHASE 2
C5.00	GRADING PLAN
C5.10	SCM PLAN
C5.11	SCM DETAILS
C6.00	UTILITY PLAN
C6.10	UTILITY PLAN AND PROFILE
C6.11	UTILITY PLAN AND PROFILE
C9.00	SITE DETAILS
C9.01	SITE DETAILS
C9.02	SITE DETAILS
C9.10	EROSION CONTROL DETAILS
C9.30	UTILITY DETAILS
L1.00	LANDSCAPE PLAN
L2.00	PLANTING DETAILS
A-101	FLOOR PLANS
A-102	PICNIC SHELTER FLOOR PLANS
A-201	ELEVATIONS
A-202	ELEVATIONS
A-203	ELEVATIONS
A-204	EXTERIOR PERSPECTIVES

APPLICANT/OWNER



TOWN OF CARRBORO
PARKS AND RECREATION
301 WEST MAIN STREET
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CONTACT: WENDELL RODGERS
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WRODGERS@TOWNOFARRBORO.ORG

CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE



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WWW.STEWARTINC.COM
PROJECT # C16146

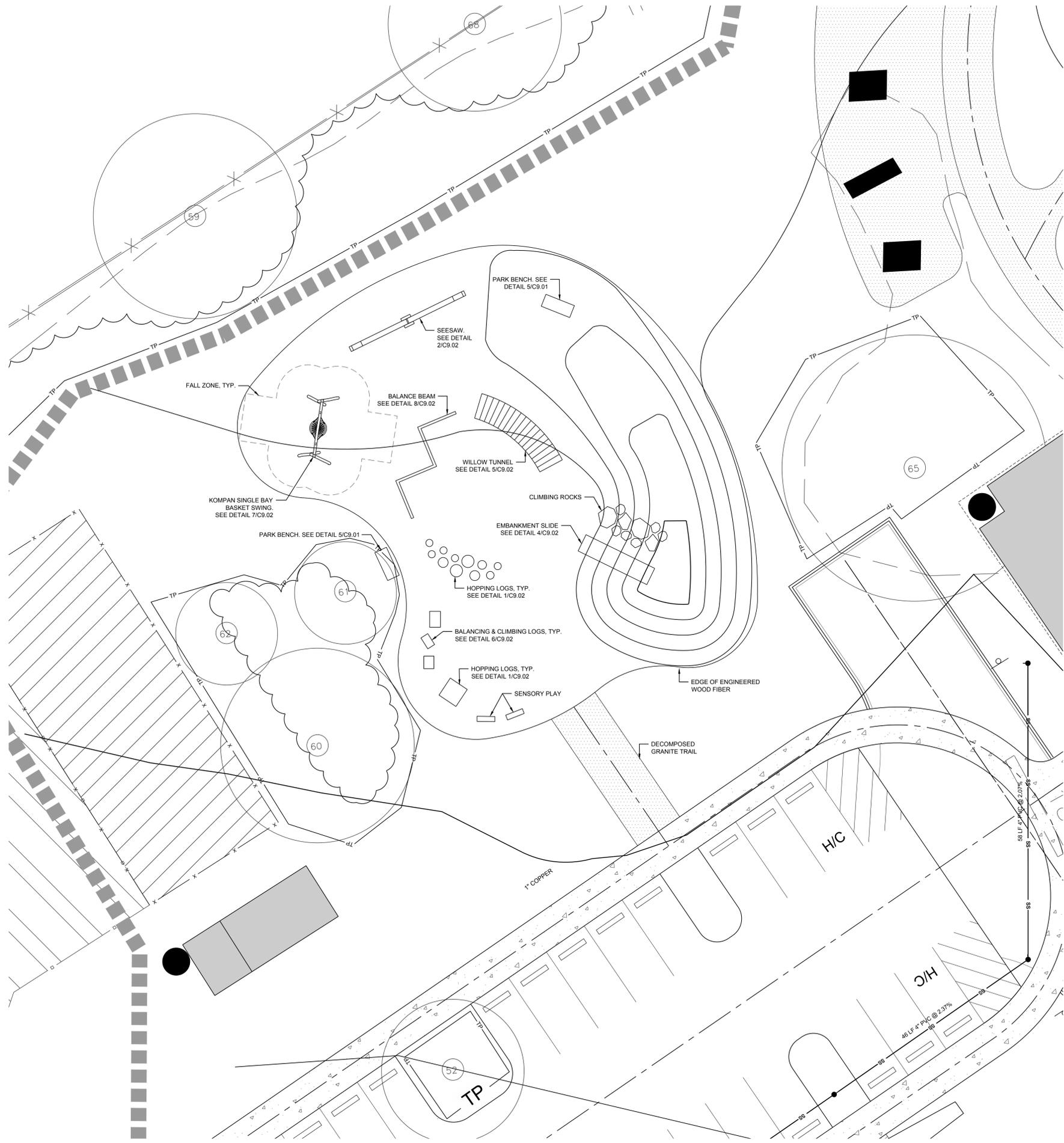
STEWART INC. - CIVIL ENGINEERING
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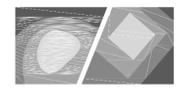
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Date: 02.27.2017
Drawn by: T. GULL
Designed by: T. GULL

Revisions:		
No.	Date	Description

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- SITE LEGEND**
- PROPOSED BUILDING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY PAVEMENT
 - PROPOSED STOP BAR
 - PROPOSED 6' WIDE STANDARD CROSSWALK
 - PROPOSED SIGN
 - PROPOSED ADA PARKING SPACE
 - PROPOSED KEYSTONE WALL
 - PROPOSED WHEEL STOP
 - PROPOSED DECOMPOSED GRANITE TRAIL
 - PROPOSED COMPACTED DIRT TRACK
 - PROPOSED TREELINE
 - PROPOSED FENCE
 - PROPOSED VEHICLE GATE (X' WIDE)
 - PROPOSED LIGHT
 - PROPOSED BIKE RACK
 - PROPOSED BENCH
 - PROPOSED BOLLARD
 - LIMITS OF DISTURBANCE

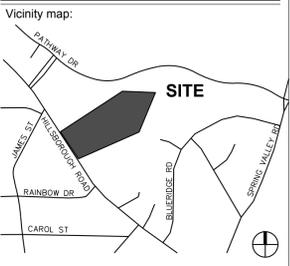


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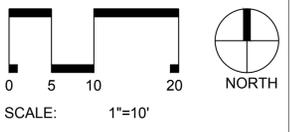
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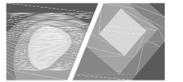
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Title:
PLAYGROUND ENLARGEMENT

Project number: C16146 Sheet:
 Date: 05.01.2017
 Drawn by: TPG
 Approved by: JLW **C3.01**



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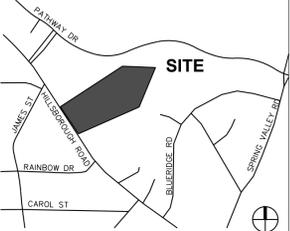
Client:

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Project:

MARTIN LUTHER KING, JR. PARK

Vicinity map:



Seal:



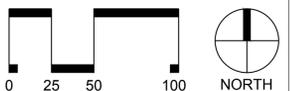
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SCALE: 1"=50'

Title:

EROSION CONTROL PHASE 2

Project number: C16146 Sheet:

Date: 05.01.2017

Drawn by: CJJ

Approved by: JWP

C4.02

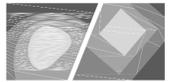
EROSION CONTROL LEGEND

- SILT FENCE
- TREE PROTECTION
- DIVERSION DITCH
- LIMITS OF DISTURBANCE
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- TEMPORARY CONSTRUCTION ENTRANCE
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS



TOTAL AREA OF DISTURBANCE
6.03 AC



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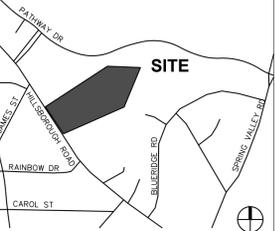
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**MARTIN LUTHER
KING, JR.
PARK**

Vicinity map:



Seal:



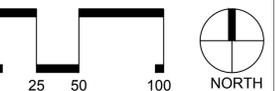
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SCALE: 1"=50'

Title:

GRADING PLAN

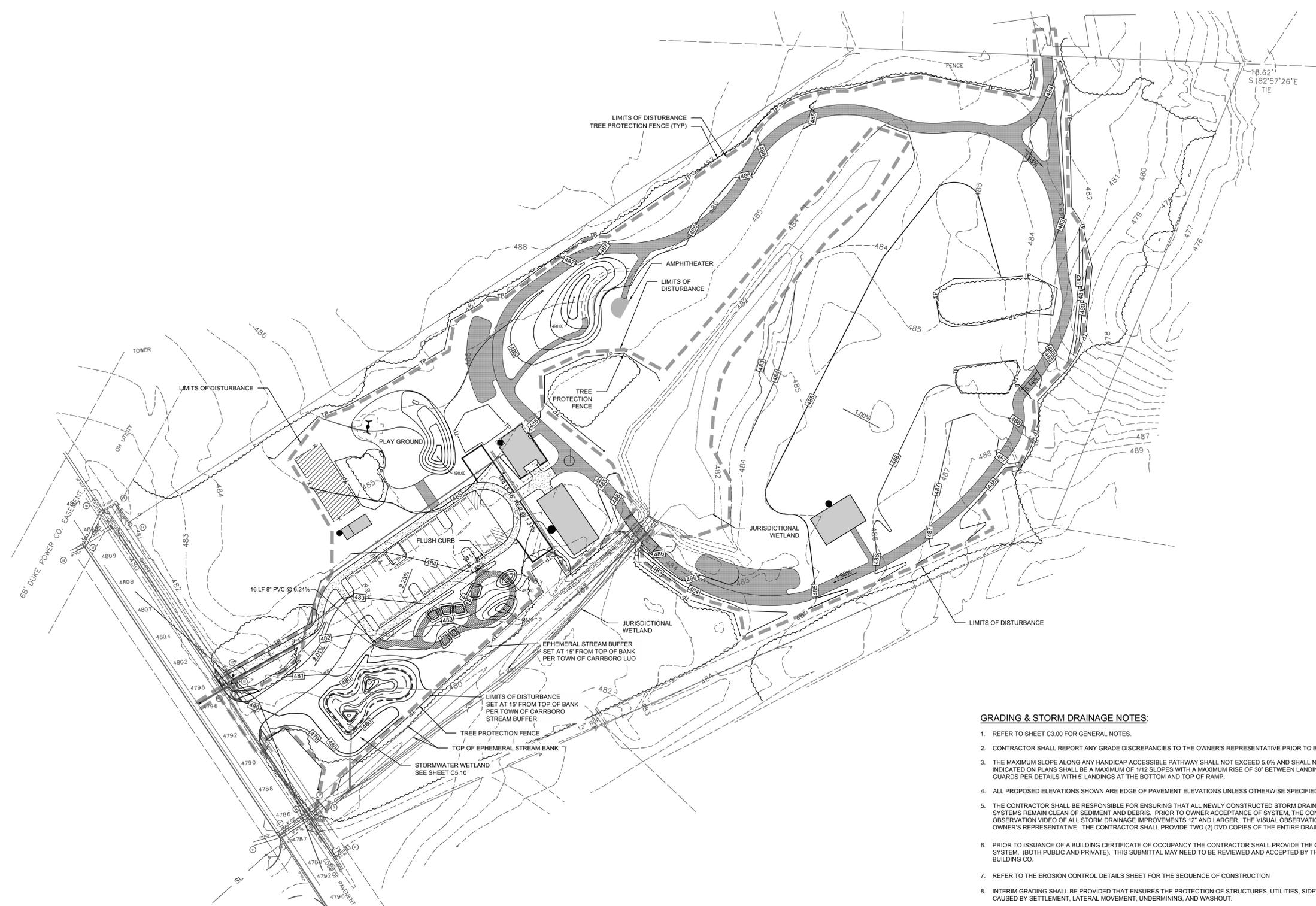
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Date: 05.01.2017

Drawn by: NBC

Approved by: JWP

C5.00



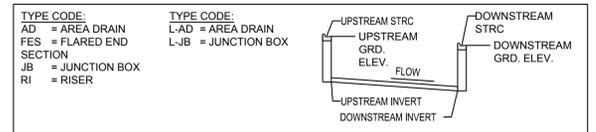
GRADING LEGEND

- 200 — PROPOSED MAJOR CONTOUR
- 200 — PROPOSED MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- PROPOSED STORM DRAINAGE
- PROPOSED AREA DRAIN
- 44.50 PROPOSED ELEVATION
- RIPRAP DISSIPATOR
- FLOW DIRECTION
- LIMITS OF DISTURBANCE

GRADING & STORM DRAINAGE NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP.
- ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
- PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
- REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION
- INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
- INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
- TIE ROOF LEADERS WHERE POSSIBLE TO UNDERGROUND STORM SYSTEM. CONTRACTOR TO FIELD VERIFY LOCATE AND INSTALL WHERE POSSIBLE OR AS SHOWN ON PLANS. WHERE ROOF LEADERS DAYLIGHT AT GRADE A SPLASH BLOCK APPROVED BY THE OWNER'S REPRESENTATIVE SHALL BE INSTALLED.
- MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
- PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
- SITE GRADING IMMEDIATELY ADJACENT TO FOUNDATION OF BUILDING SHALL SLOPE NOT LESS THAN 1/20 AWAY FOR MINIMUM DISTANCE OF 10 FEET. ALTERNATIVE METHOD SHALL BE PROVIDED TO DIVERT WATER AWAY FROM FOUNDATION VIA SWALES SLOPED AT A MINIMUM OF 2% OR IMPERVIOUS SURFACES SLOPED AWAY A MINIMUM OF 2% AWAY FROM BUILDING.
- CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
- CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.
- TOP OF WALL ELEVATIONS INDICATE THE ELEVATION AT THE TOP OF THE CAP, UNLESS OTHERWISE NOTED.
- BOTTOM OF WALL ELEVATIONS INDICATE THE ELEVATION OF THE FINISHED GRADE.

STORM DRAINAGE NETWORK



- NOTES:**
- STRUCTURES WITHIN NCDOT RIGHT-OF-WAY SHALL BE TO NCDOT STANDARDS.
 - STRUCTURES NOT WITHIN RIGHT OF WAY SHALL EITHER ALL BE TO NCDOT STANDARDS OR SHALL ALL BE TO LOCAL JURISDICTIONAL STANDARDS.
 - ALL STORM PIPES TO BE CLASS III RCP UNLESS OTHERWISE NOTED.

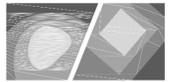
STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
BMP RISER	RIM = 481.55 INV OUT = 477.49		Pipe 2, 12" RCP INV OUT =477.49
HW#1	RIM = 478.90 INV IN = 477.17	Pipe 2, 12" RCP INV IN =477.17	

PIPE TABLE

START STRUCTURE	END STRUCTURE	START INVERT	END INVERT	SIZE	LENGTH	SLOPE	MATERIAL
		483.80	483.50	8"	15.98'	1.88%	PVC
		481.50	480.50	8"	16.03'	6.24%	PVC
		482.50	481.00	18"	114.49'	1.31%	RCP
BMP RISER	HW#1	477.49	477.17	12"	59.44'	0.53%	RCP

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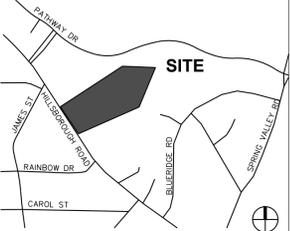
Client:

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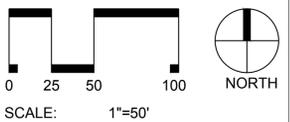


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SCM DETAILS

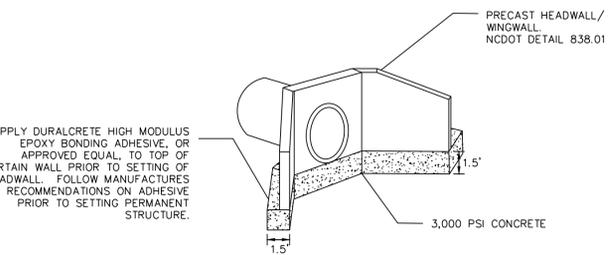
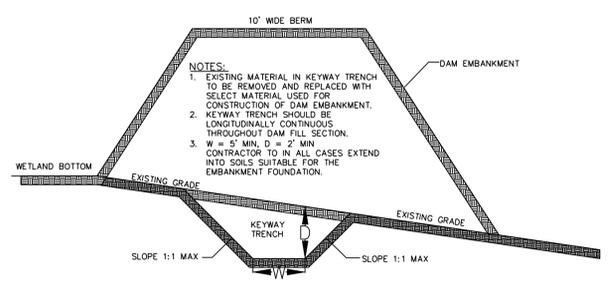
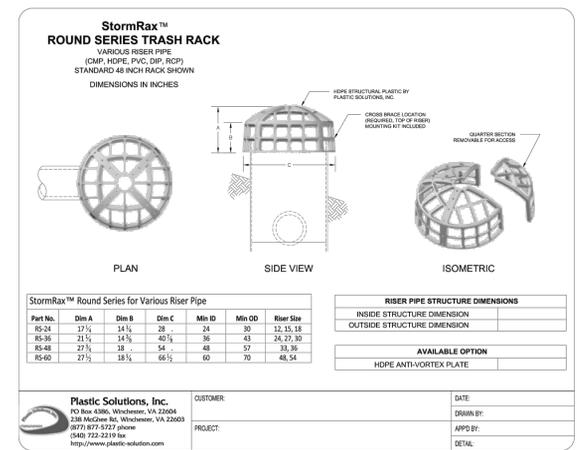
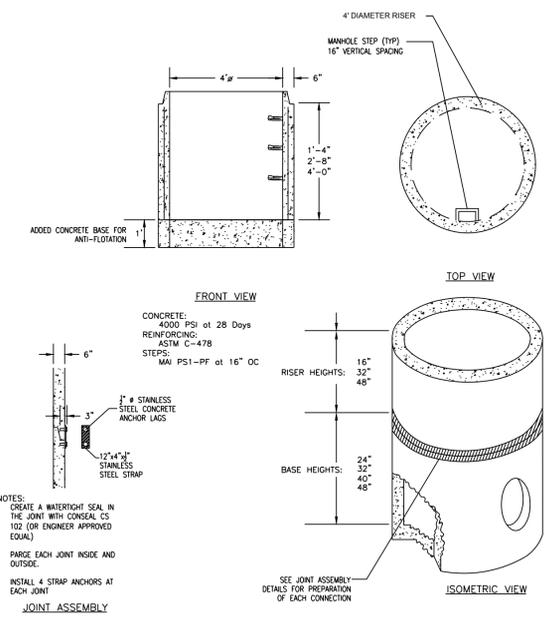
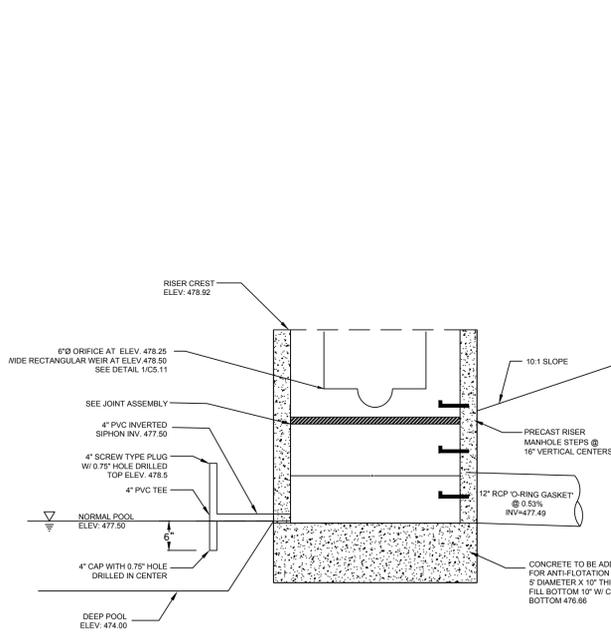
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Date: 05.01.2017

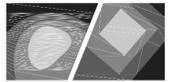
Drawn by: NBC

Approved by: JWP

C5.11



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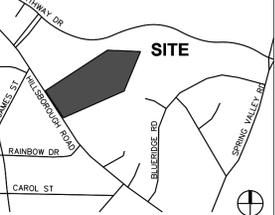
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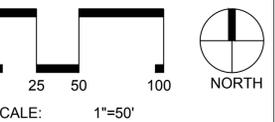


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1	02.21.2017	60% DD



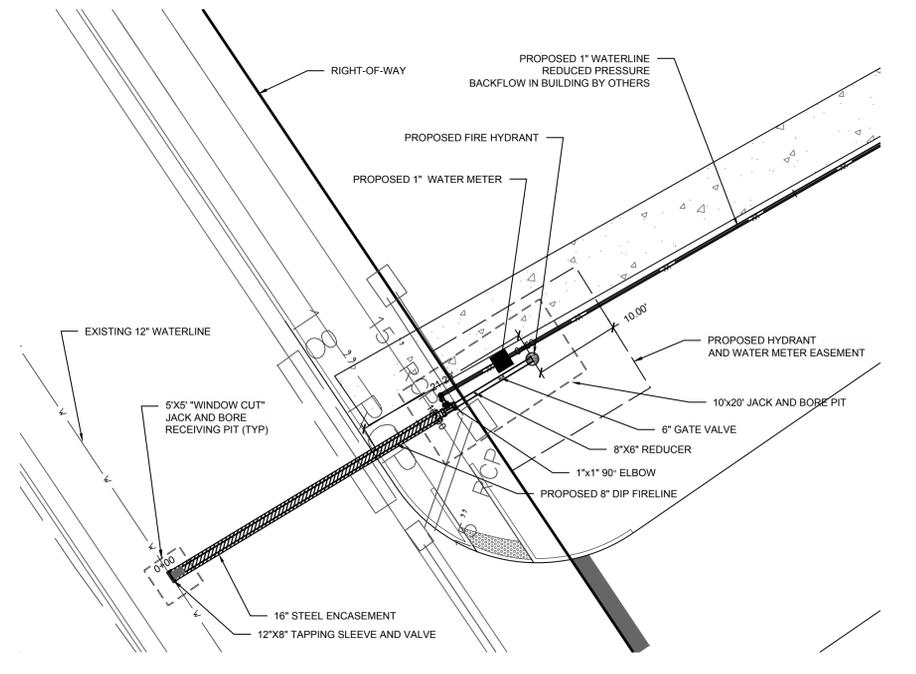
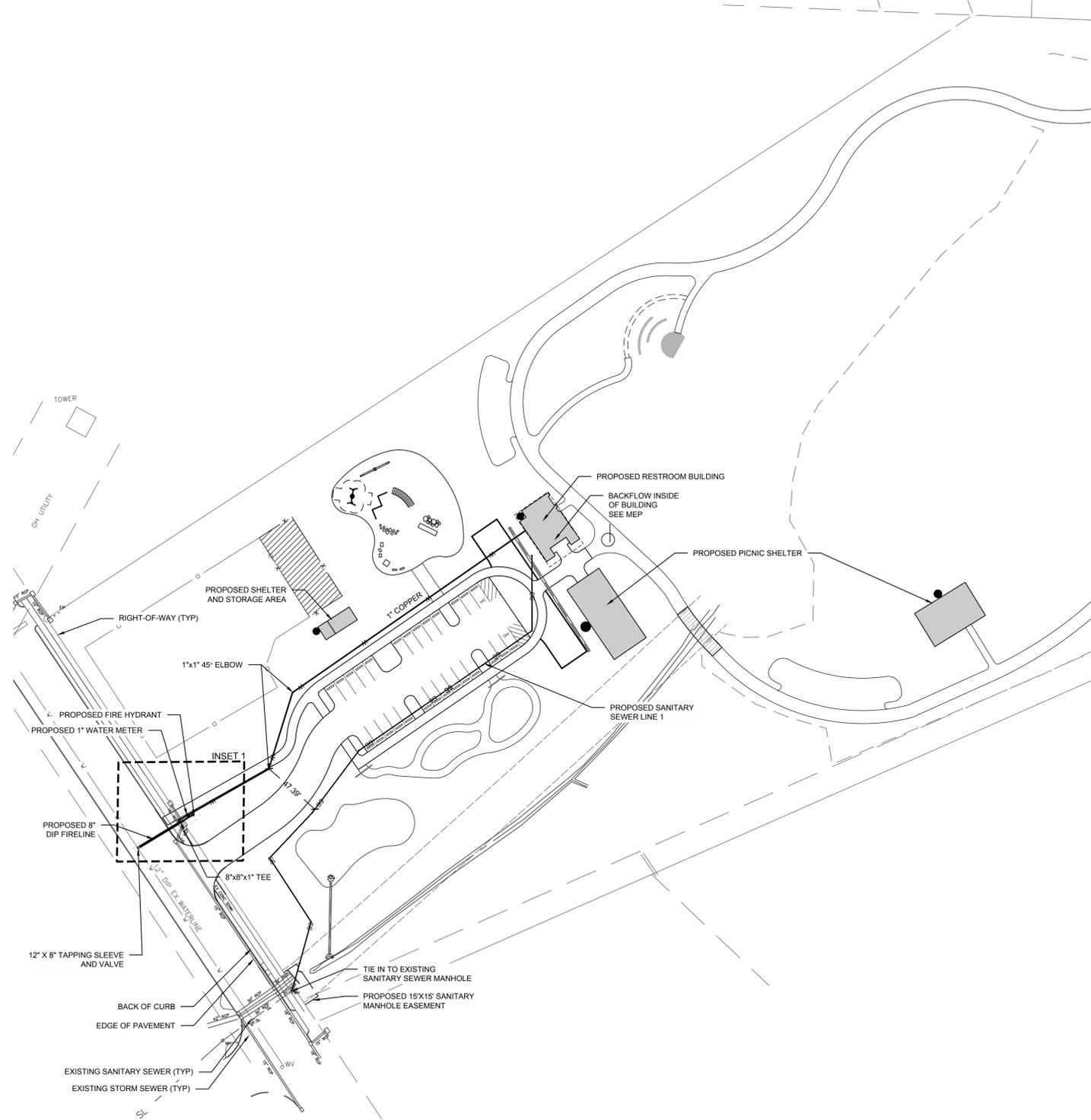
Title:

UTILITY PLAN

Project number: C16146 Sheet:
 Date: 03.15.2017
 Drawn by: C.J.J
 Approved by: J.W.P. **C6.00**

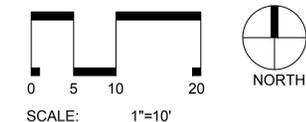
UTILITY LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- SS — PROPOSED SANITARY SEWER LINE
- ⊕ PROPOSED FIRE HYDRANT
- ⊕ PROPOSED WATER VALVE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ PROPOSED SANITARY SEWER MANHOLE
- ⊕ PROPOSED CLEANOUT
- ⊕ PROPOSED FDC
- ⊕ PROPOSED BACKFLOW METER
- ⊕ PROPOSED POST INDICATOR VALVE (PIV)
- ⊕ GREASE INTERCEPTOR
- 300' HYDRANT COVERAGE CIRCLE
- ▬ LIMITS OF DISTURBANCE



INSET 1 - WATER METER ASSEMBLY

scale: 1" = 10'



UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
4" SEWER SERVICE	443 LF
PRIVATE WATER	
1" WATER MAIN	368 LF

UTILITY NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- UNLESS OTHERWISE NOTED, ALL MANHOLES SHALL BE PRE-CAST CONCRETE STRUCTURES.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER, STORM, ELECTRICAL, GAS, OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
- THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY.
- THE CONTRACTOR SHALL NOT RE-USE ANY FIRE HYDRANT REMOVED AS PART OF THIS PROJECT. ANY FIRE HYDRANT SHOWN TO BE REMOVED OR RELOCATED SHALL BE REPLACED WITH A NEW FIRE HYDRANT MEETING THE LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS.

- ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
- ELEVATIONS OF UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE, WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS, SUCH ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER, WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER.
- UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES, CURBS AND GUTTER OR CONCRETE WALKS / PADS. IF UTILITIES SHOWN ON THIS PLAN CANNOT BE INSTALLED PRIOR TO INSTALLATION OF IMPERVIOUS (ASPHALT / CONCRETE) CONDUIT SHALL BE INSTALLED FOR THE "FUTURE" UTILITY INSTALLATION.
- AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO APPROVAL FROM LOCAL JURISDICTION OR ENGINEER THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL UTILITY INSTALLATION. HORIZONTAL AND VERTICAL INFORMATION SHALL BE PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES, HYDRANTS, AND OTHER APPURTENANCES.

PROPOSED UTILITY SEPARATION:

- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH CASE:
 - THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- CROSSING A WATER MAIN OVER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

SEPARATION OF SANITARY SEWERS AND STORM SEWERS:

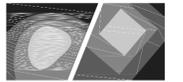
- A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS.

SEWER NOTES:

- SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
- UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA.
- MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATERTIGHT, BOLTED LIDS.
- MINIMUM REQUIRED SLOPES FOR SEWER SERVICES:
 - 4" SEWER SERVICE - 2.00% SLOPE
 - 6" SEWER SERVICE - 1.00% SLOPE
 - 8" SEWER SERVICE - 0.50% SLOPE
- UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
- SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW:
 - 4" SEWER SERVICE - SCH 80
 - 6" SEWER SERVICE - SCH 80
 - 8" SEWER SERVICE - SDR-35
- SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
- ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

WATER NOTES:

- AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS IT SHALL MEET THE REQUIREMENTS OF AWWA C-900, CLASS 200.
- ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5 FEET OF COVER.
- TESTING NOTES:
 - PRESSURE: LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 600. MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.
 - BACTERIOLOGICAL: TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
- THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER DISPOSAL.
- PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.



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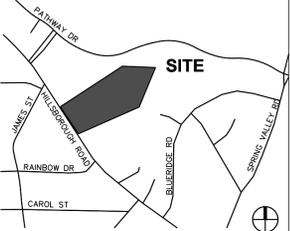
Client:

TOWN OF CARRBORO
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CARRBORO, NC 27510
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F: (919) 918-4475

Project:

**MARTIN LUTHER
KING, JR.
PARK**

Vicinity map:



Seal:



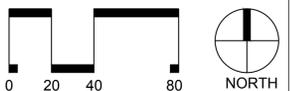
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No. Date Description

1 02.21.2017 60% DD



SCALE: 1"=40'

Title:

UTILITY PROFILES

Project number: C16146 Sheet:

Date: 03.15.2017

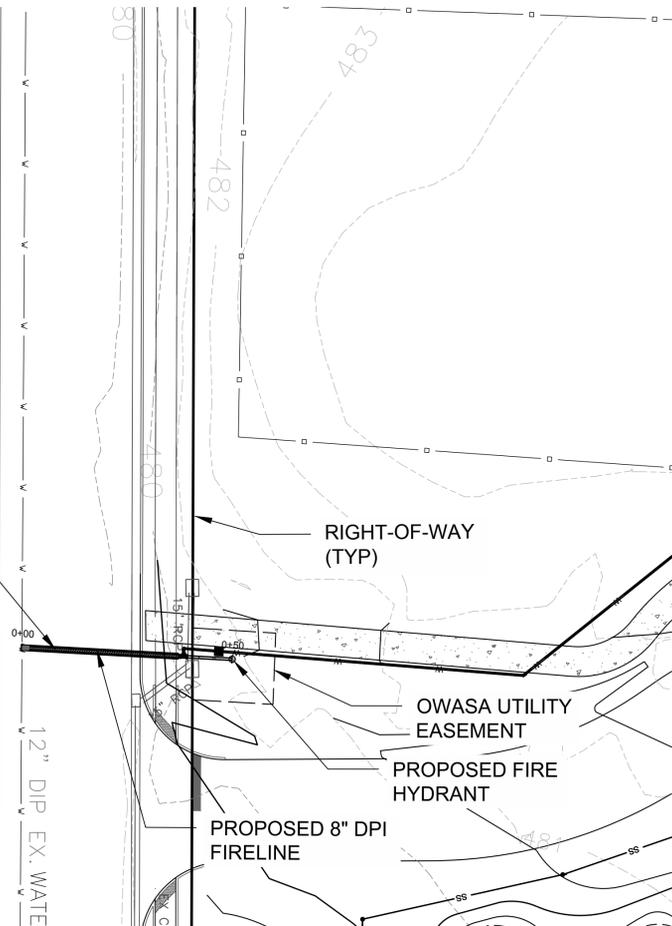
Drawn by: CJJ

Approved by: JWP

C6.10

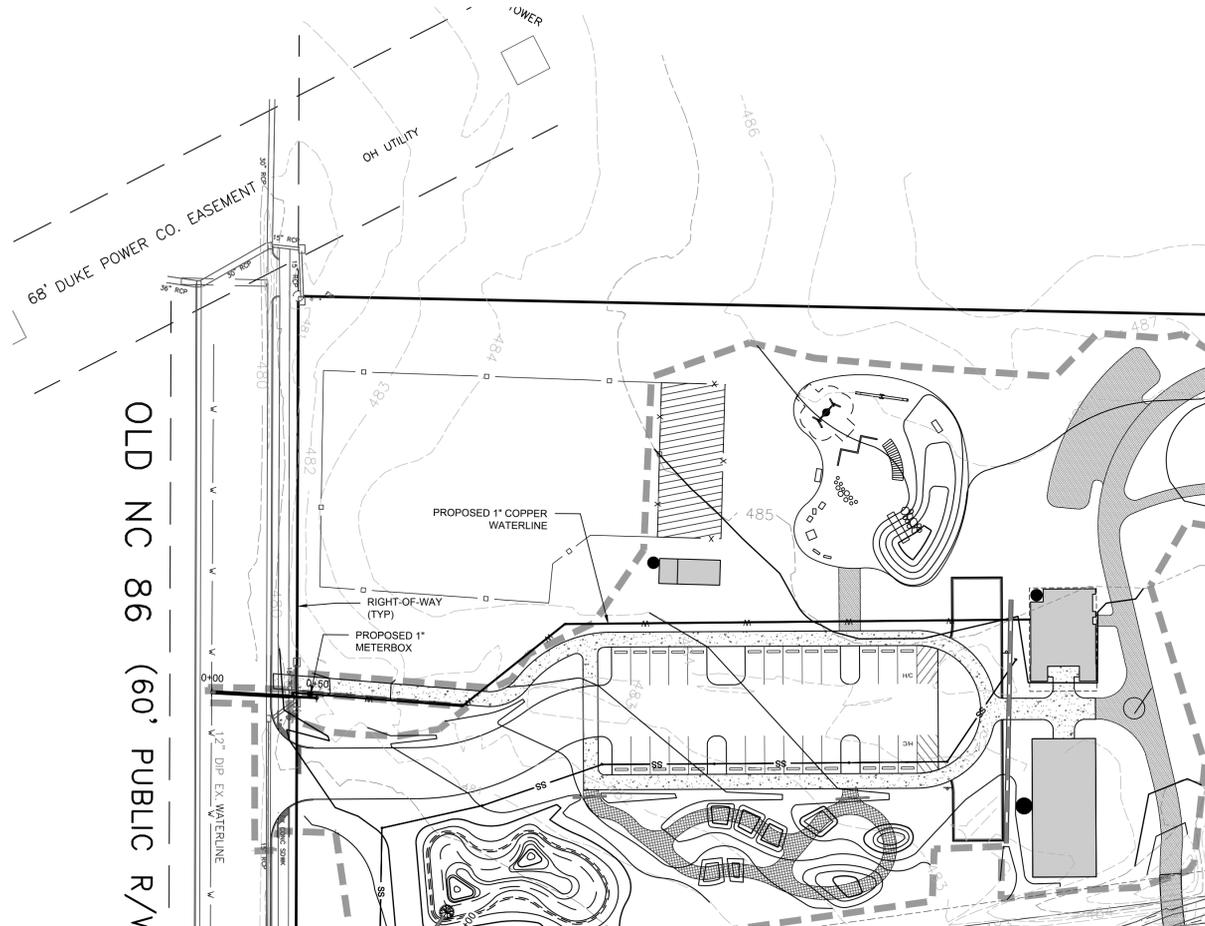
16" STEEL ENCASUREMENT

OLD NC 86 (60' PUBLIC R/W)



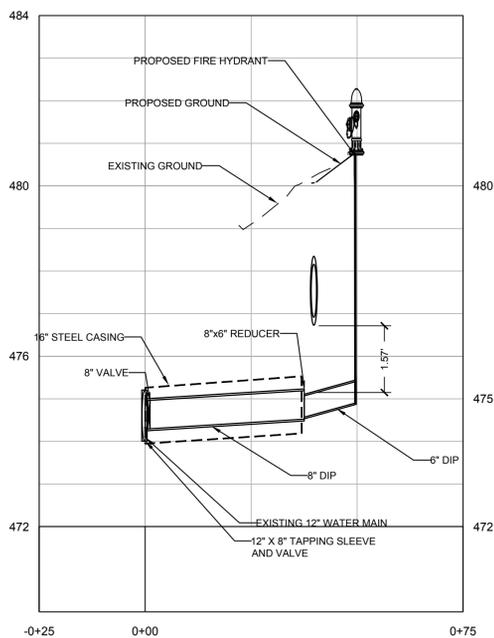
PLAN VIEW - PROPOSED 8" DIP FIRELINE
SCALE: 1"=40'

STA 0+00 - 0+49.61



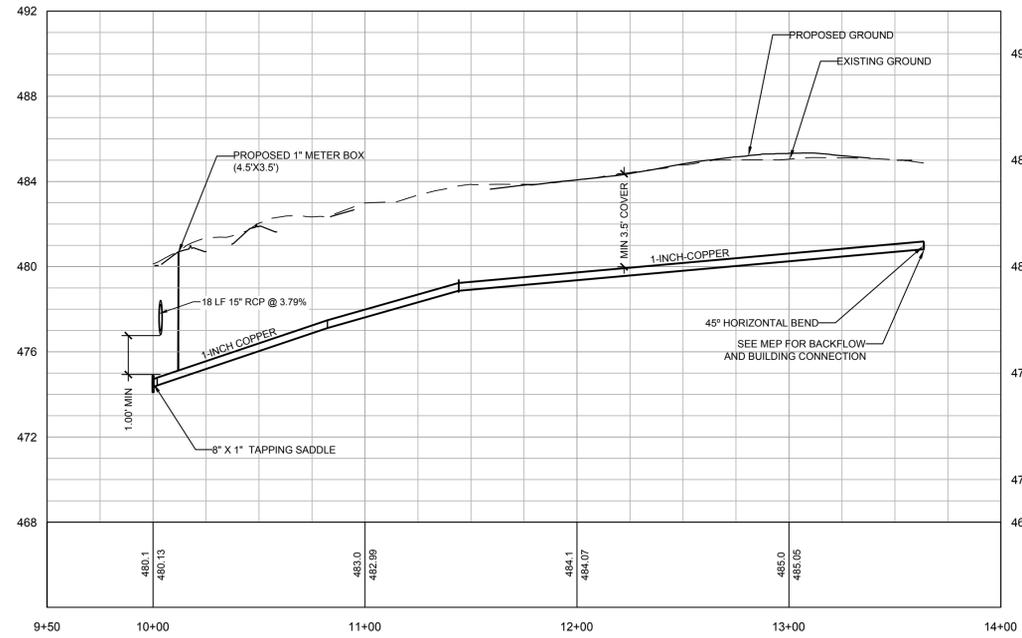
PLAN VIEW - PROPOSED 1" COPPER WATERLINE
SCALE: 1"=40'

STA 0+00.3+60.04



PROFILE VIEW - PROPOSED 8" DIP FIRELINE
SCALE: H=1"=40', V=1"=2'

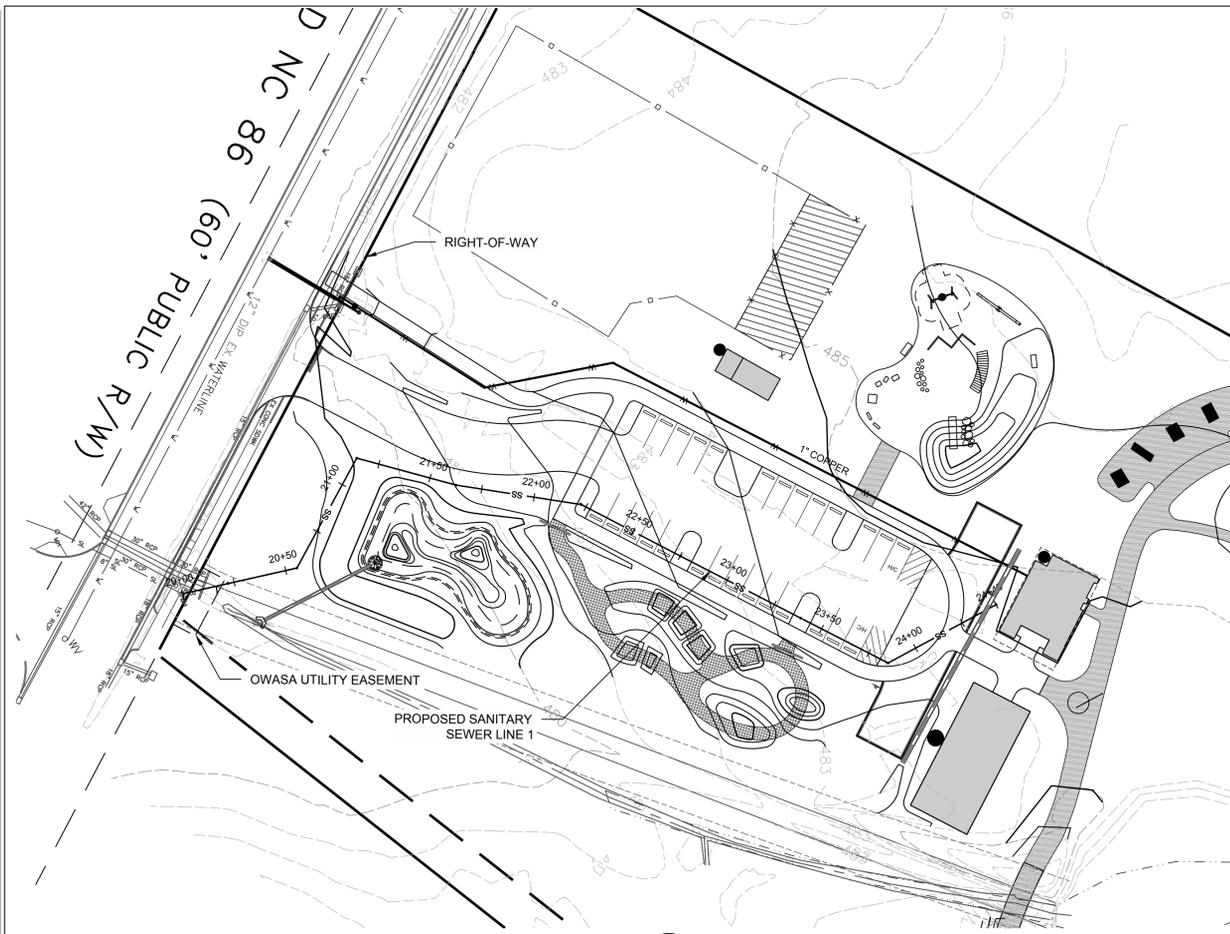
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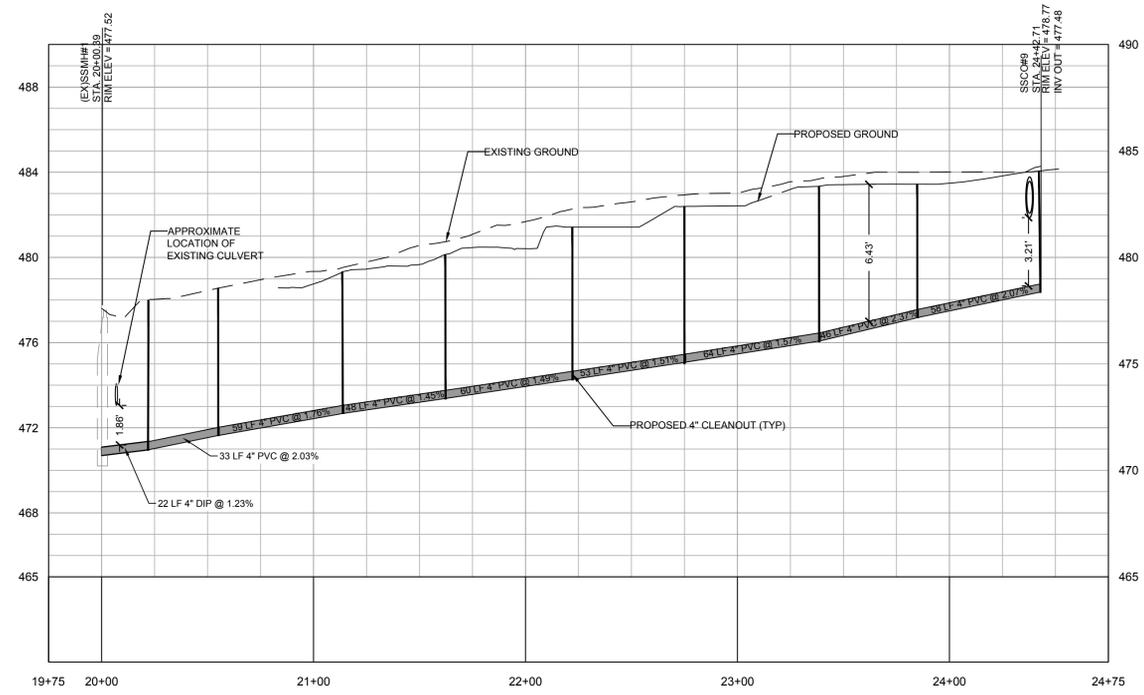
PROFILE VIEW - PROPOSED 1" COPPER WATERLINE
SCALE: H=1"=40', V=1"=4'

STA 10+00 - 13+36.36

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PLAN VIEW - PROPOSED SANITARY SEWER SERVICE 1
SCALE: 1"=40'



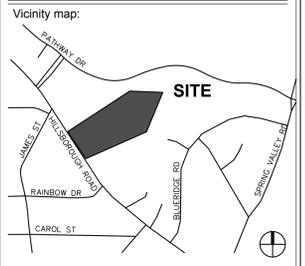
PROFILE VIEW - PROPOSED SANITARY SEWER SERVICE
SCALE: H: 1"=40', V: 1"=4'

Client:

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Project:

**MARTIN LUTHER
KING, JR.
PARK**



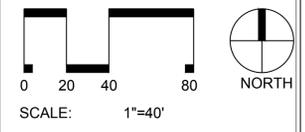
Seal:

NORTH CAROLINA
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SEAL
033779
ENGINEER
JOSEPH W. PUCKET

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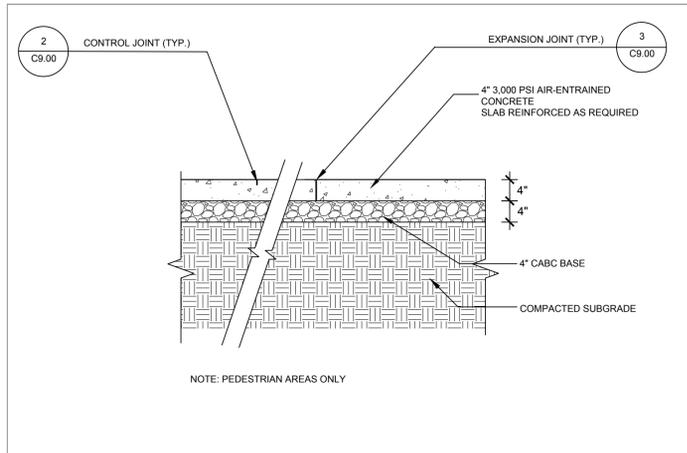
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1	02.21.2017	60% DD

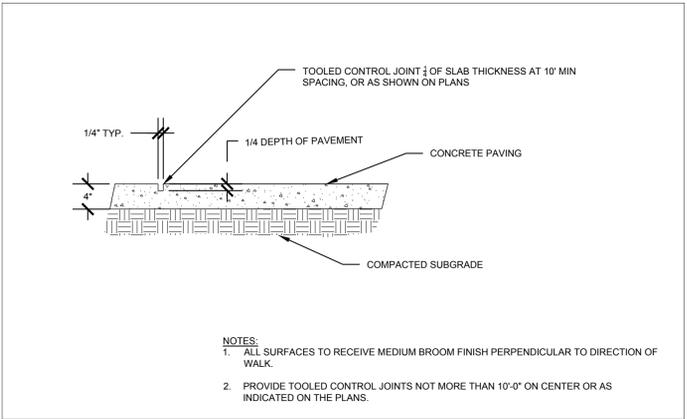


Title:
UTILITY PROFILES

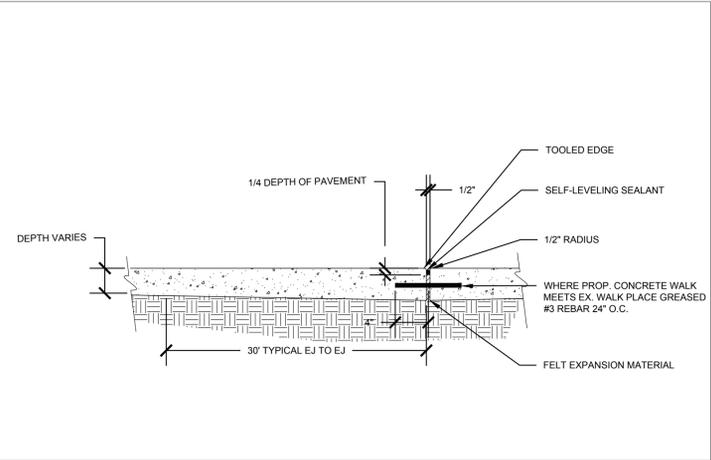
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Date: 03.15.2017
Drawn by: CJJ
Approved by: JWP **C6.11**



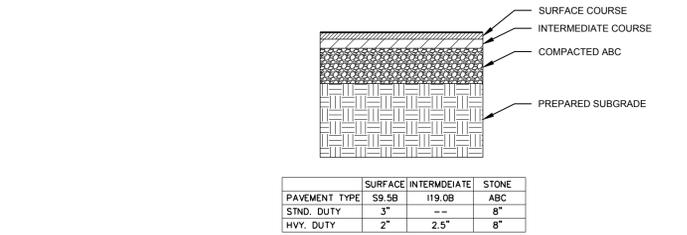
1 4" CONCRETE SIDEWALK SECTION $\frac{3}{4}" = 1'-0"$



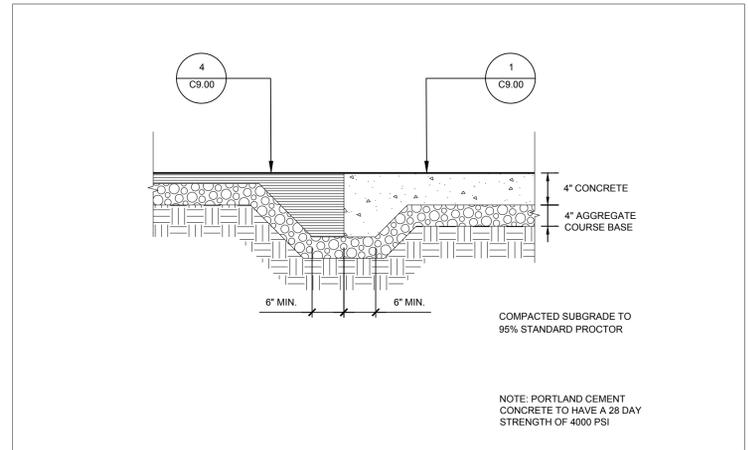
2 CONTROL JOINT - SIDEWALK SECTION NTS



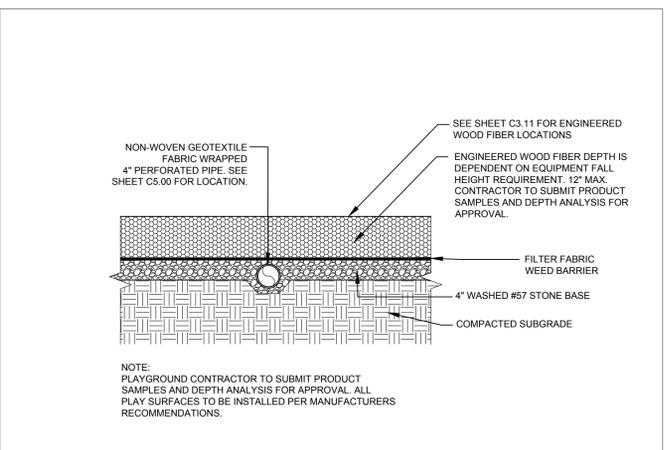
3 EXPANSION JOINT - SIDEWALK SECTION $\frac{3}{4}" = 1'-0"$



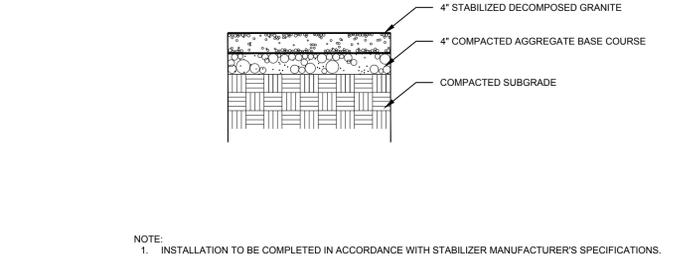
4 ASPHALT PAVING SECTION $\frac{3}{4}" = 1'-0"$



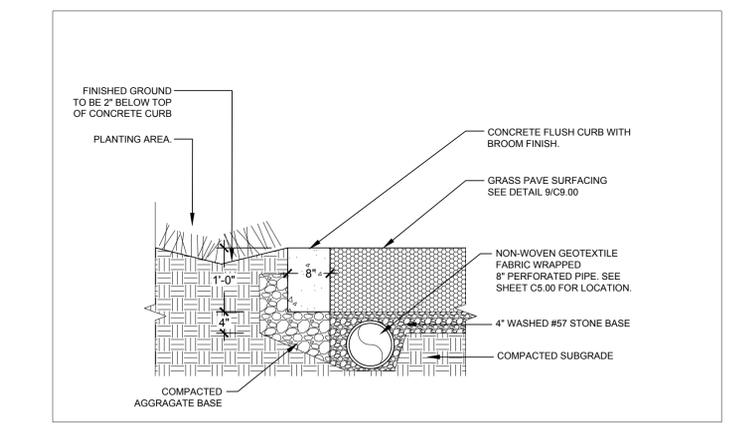
5 EDGING - SIDEWALK TO ASPHALT SECTION $\frac{3}{4}" = 1'-0"$



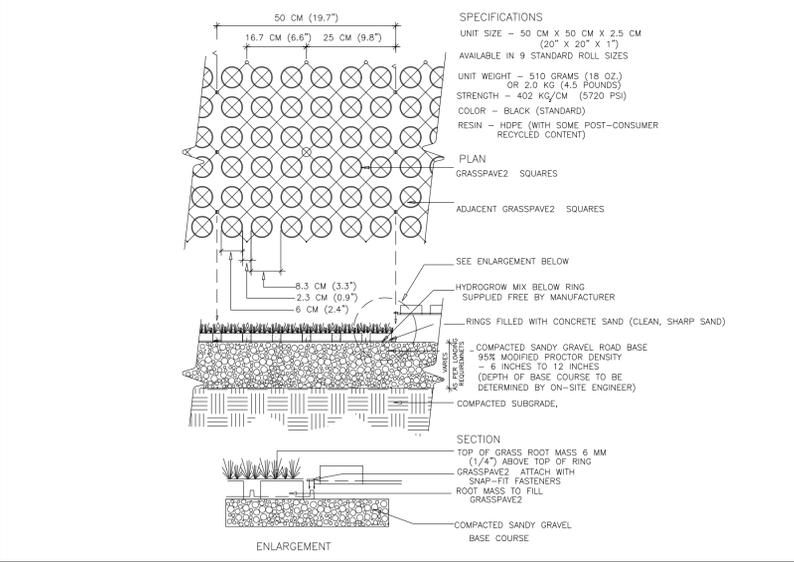
6 ENGINEERED WOOD FIBER SURFACING SECTION $\frac{3}{4}" = 1'-0"$



7 DECOMPOSED GRANITE PATH WITH STABILIZER SECTION $\frac{3}{4}" = 1'-0"$



8 CIP FLUSH CURB SECTION $\frac{3}{4}" = 1'-0"$

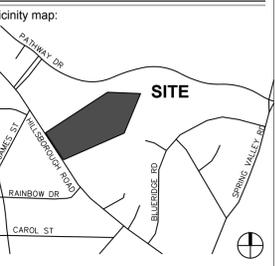


9 GRASS PAVE SECTION NTS



Client:
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Project:
MARTIN LUTHER KING, JR. PARK



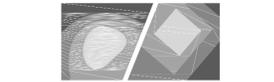
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No.	Date	Description

Title:
SITE DETAILS

Project number: C16146 Sheet:
Date: 05.01.2017
Drawn by: TPG
Approved by: JLW **C9.00**

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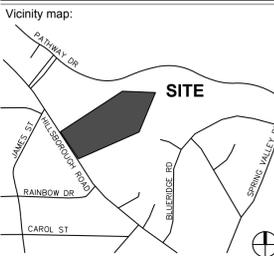


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Project:
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Seal:

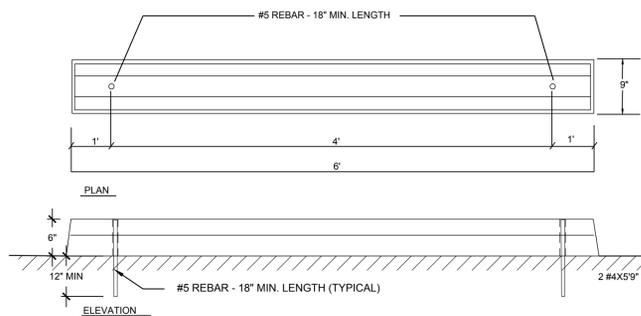
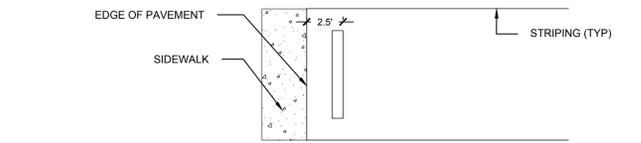
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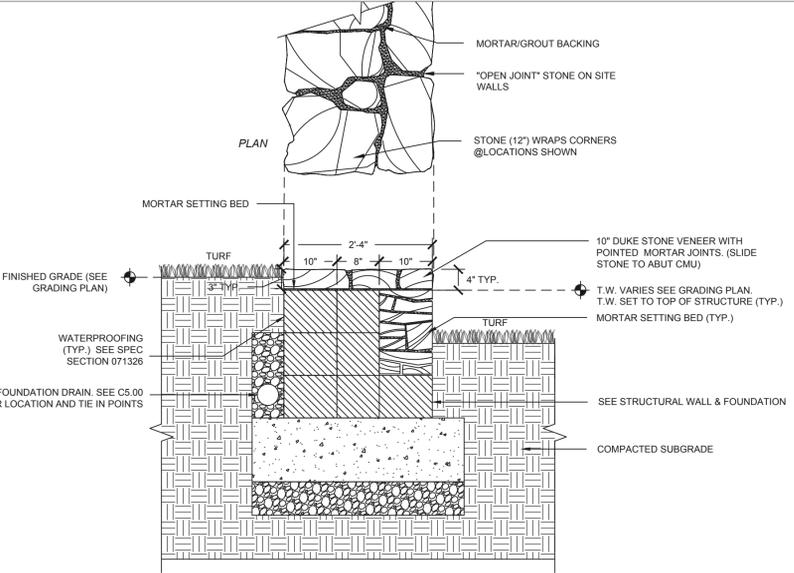
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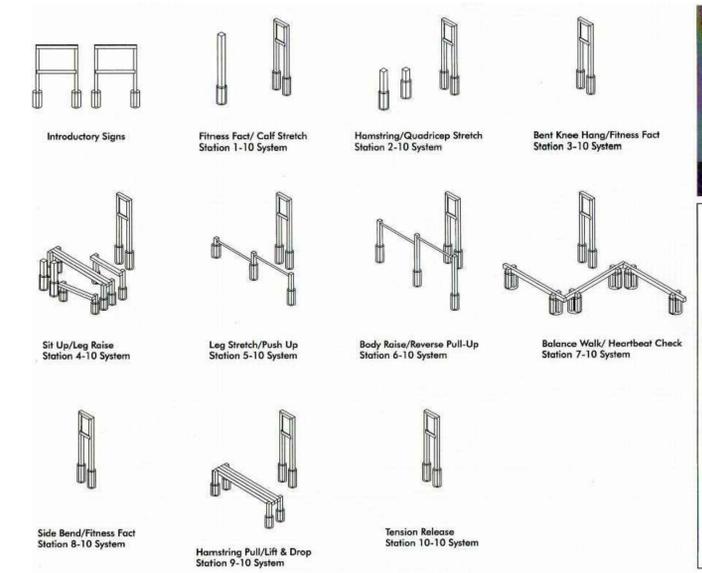
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 Approved by: JLW **C9.01**



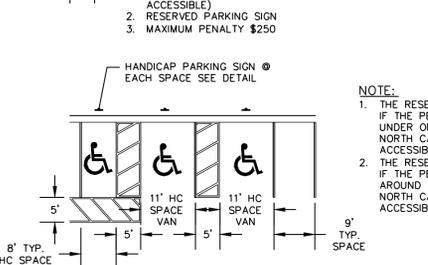
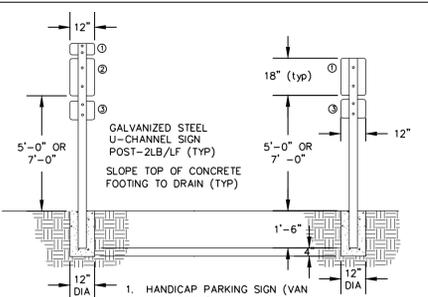
1 CONCRETE WHEEL STOP NTS
 PLAN



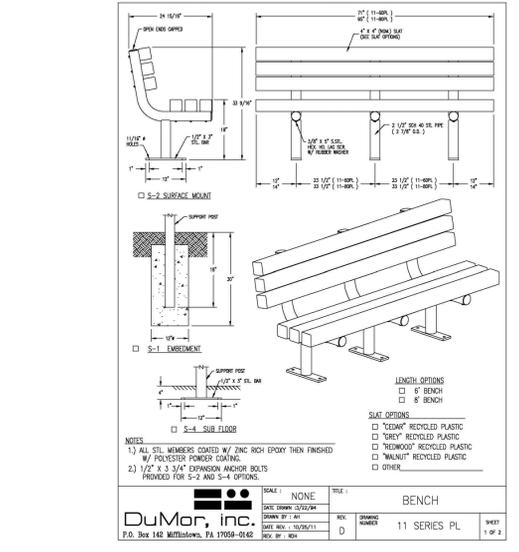
4 SEAT WALL - AMPHITHEATRE NTS
 PLAN



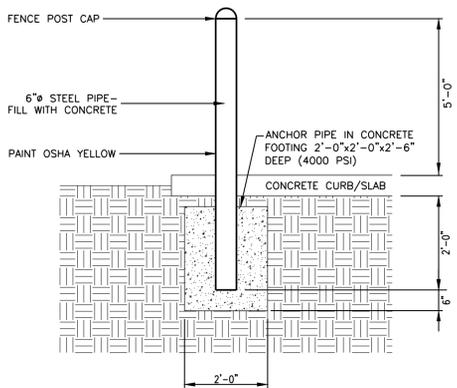
7 EXERCISE EQUIPMENT NTS
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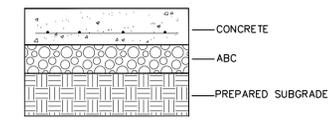
2 ADA SIGNAGE NTS
 PLAN



5 PARK BENCH NTS
 PLAN



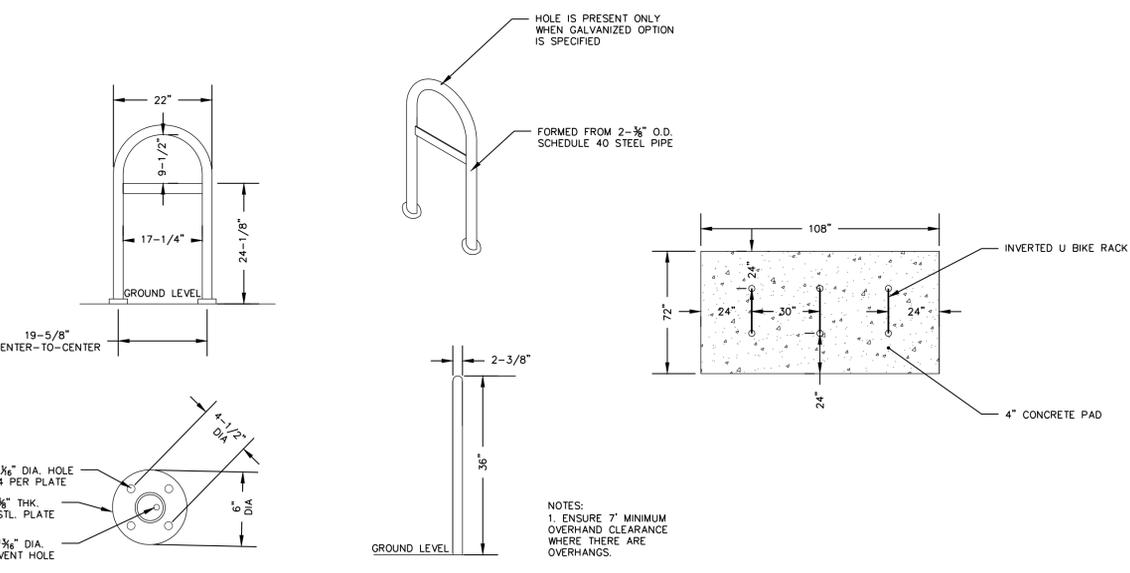
3 BOLLARD NTS
 PLAN



PAVEMENT SHALL BE CONSTRUCTED OF 4000 PSI CONCRETE. REINFORCEMENT BARS SHALL BE ONE (1) ROW AT 12" O.C. BOTH DIRECTIONS AS INDICATED BELOW. SURFACE FINISHES AND JOINT TO SCALE SHALL BE AS INDICATED ON PLANS AND DETAILS.

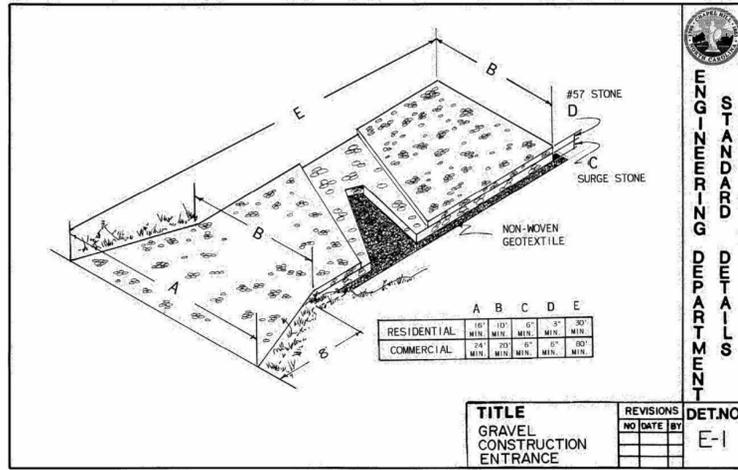
PAVEMENT TYPE	ABC	REINF.	CONCRETE
HEAVY DUTY (DUMPSTER PAD)	4"	1 ROW - #4 REBAR SPACED 12" O.C. BOTH WAYS	6"
SIDEWALK	-	-	4"

6 HEAVY DUTY CONCRETE NTS
 PLAN

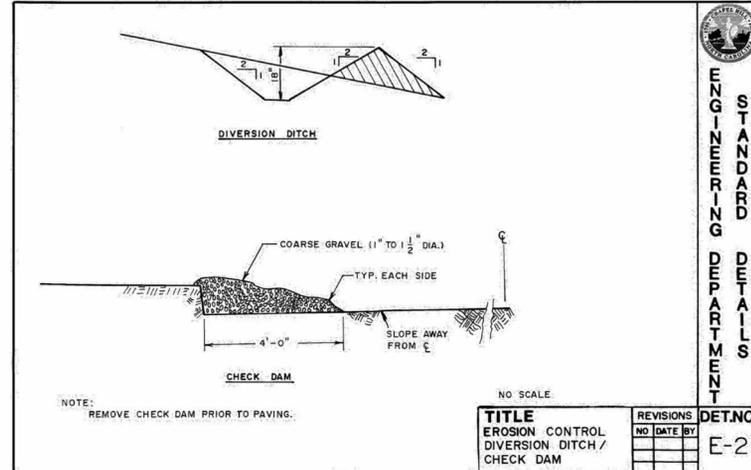


8 BIKE RACK NTS
 PLAN

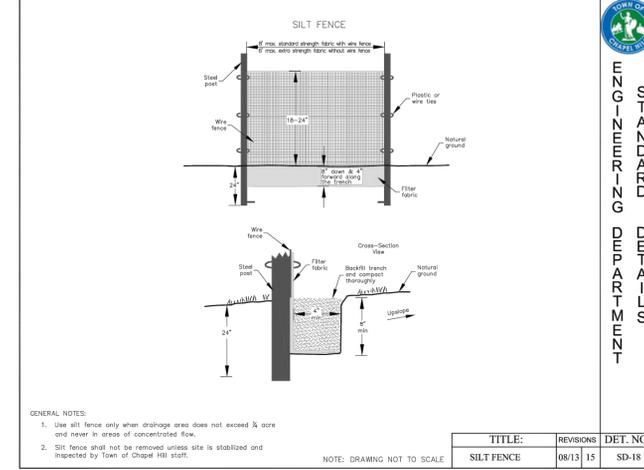
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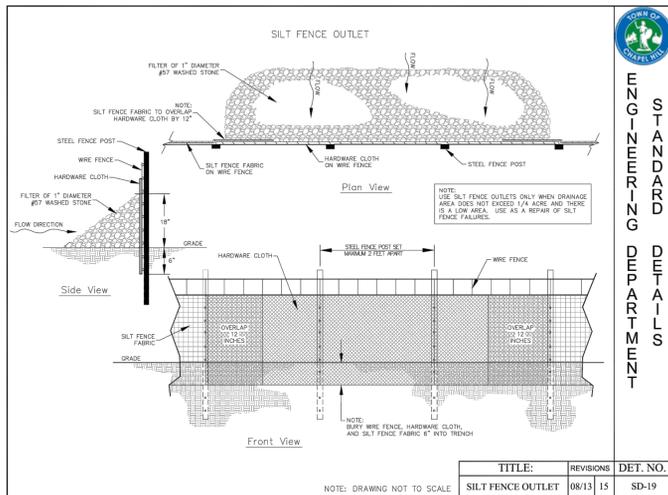
1 CONSTRUCTION ENTRANCE PLAN NTS



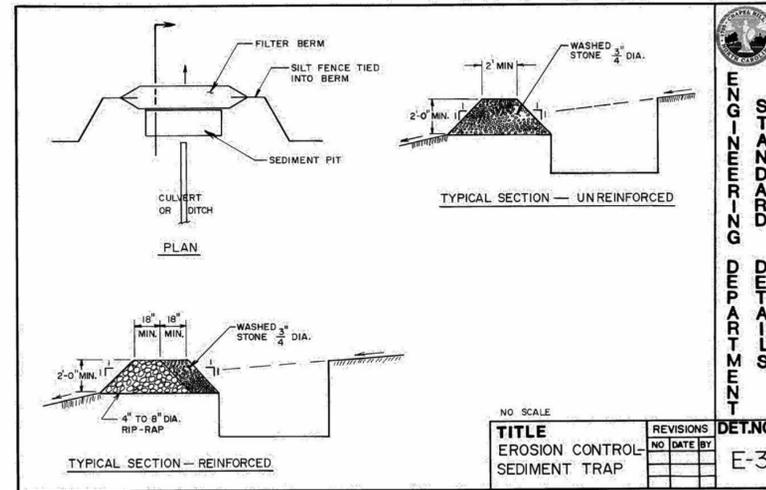
2 DIVERSION DITCH SECTION NTS



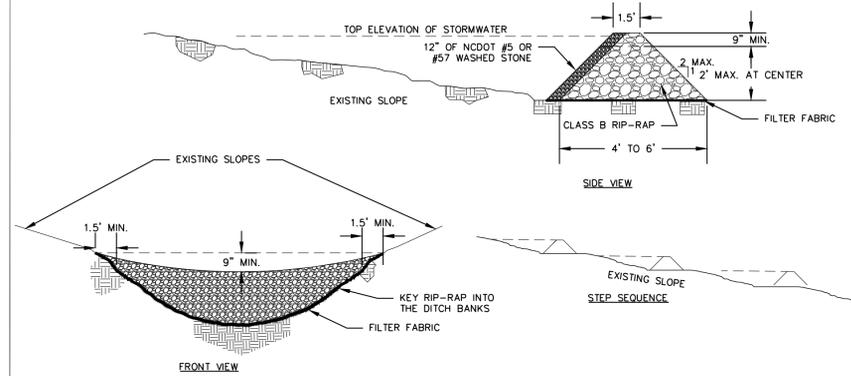
3 SILT FENCE SECTION NTS



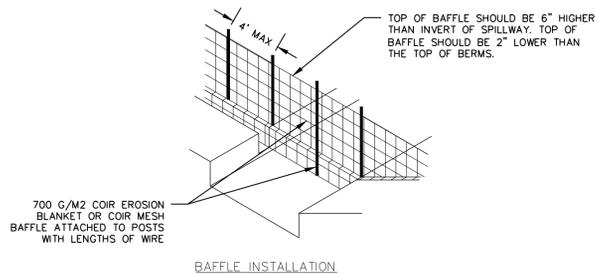
4 SILT FENCE OUTLET SECTION NTS



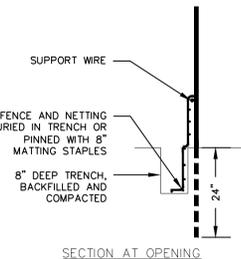
5 SEDIMENT TRAP SECTION 3/8" = 1'-0"



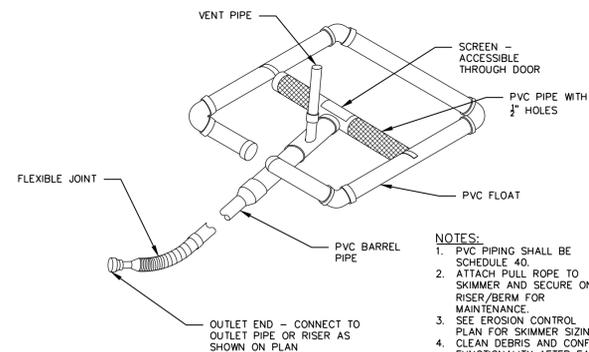
6 CHECK DAM SECTION NTS



- NOTES:**
1. DRIVE STEEL FENCE POST AT LEAST 24" INTO SOLID GROUND.
 2. WOOD POSTS ARE NOT ACCEPTABLE.
 3. USE STAPLES 1' APART TO ATTACH FABRIC.
- MAINTENANCE:**
1. INSPECT BAFFLES AT LEAST ONCE A WEEK OR AFTER ANY RAINFALL.
 2. REMOVE SEDIMENT WHEN IT REACHES HALF FULL. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGN STORAGE DEPTH.
 3. TAKE ALL PRECAUTION TO MAINTAIN QUALITY OF BAFFLES. IF BAFFLES ARE DAMAGED, REMOVE AND REPLACE.



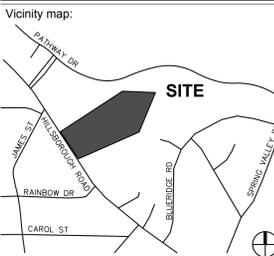
7 BAFFLE SECTION NTS



8 SKIMMER SECTION NTS

Client:
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CARRBORO, NC 27510
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Project:
MARTIN LUTHER KING, JR. PARK



Seal:
NORTH CAROLINA PROFESSIONAL SEAL
033779
ENGINEER
JOSEPH W. PUCKETT

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:
LAND USE PERMIT

No.	Date	Description

Title:
EROSION CONTROL DETAILS

Project number: C16146 Sheet:
Date: 05.01.2017
Drawn by: CJJ
Approved by: JWP **C9.10**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
PAVEMENT REPAIRS
FOR SUPERPAVE MIX TYPES

SHEET 1 OF 1
654.01

D	X	W
12"	1'-4"	7'-4"
15"	1'-7"	7'-7"
18"	1'-10"	7'-10"
24"	2'-6"	8'-6"
30"	3'-1"	9'-1"
36"	3'-8"	9'-8"
42"	4'-5"	10'-5"
48"	5'-0"	11'-0"

PAVEMENT REPAIRS ON ROADS TO BE RESURFACED
(PIPE IS PLACED UNDER EXISTING PAVEMENT)

PAVEMENT REPAIRS ON ROADS NOT TO BE RESURFACED
(PIPE IS TO BE PLACED UNDER EXISTING PAVEMENT)

ENGLISH STANDARD DRAWING FOR
PAVEMENT REPAIRS
FOR SUPERPAVE MIX TYPES

SHEET 1 OF 1
654.01

Return to Table of Details

CARRIER PIPE	CASING PIPE	NOTES
12" DIA. 12' L.	12" DIA. 12' L.	1. Installation by dry bore & (drains)
15" DIA. 15' L.	15" DIA. 15' L.	2. Bore to cut from right-of-way to right-of-way, unless approved
18" DIA. 18' L.	18" DIA. 18' L.	3. Shrinkage by DRYCAST
24" DIA. 24' L.	24" DIA. 24' L.	4. Gravel bedding and filter fabric required for open air installation
30" DIA. 30' L.	30" DIA. 30' L.	5. Gravel bedding and filter fabric required for open air installation
36" DIA. 36' L.	36" DIA. 36' L.	6. All exposed metal to be coated with epoxy or epichlorohydrin material
42" DIA. 42' L.	42" DIA. 42' L.	7. Study to be made, manufactured by ITI Concrete, Charlotte, N.C. / Smart Manufacturing, Durham, N.C. / AFS Casing Systems by Advanced Products Systems, Inc., Durham, N.C. / or approved equal
48" DIA. 48' L.	48" DIA. 48' L.	8. DIMENSIONS ARE WITHOUT COATINGS

ORANGE WATER AND SEWER AUTHORITY

TYPICAL DETAIL for BORE UNDER PAVED ROADS / HIGHWAYS

June 2013

1 PAVEMENT REPAIR SECTION NTS

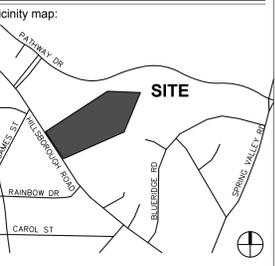


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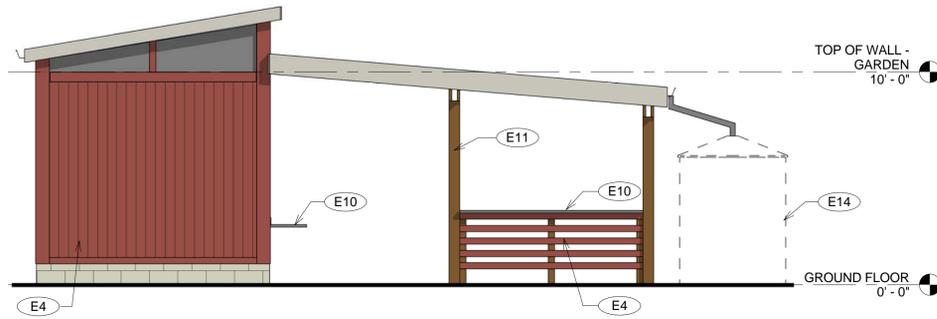
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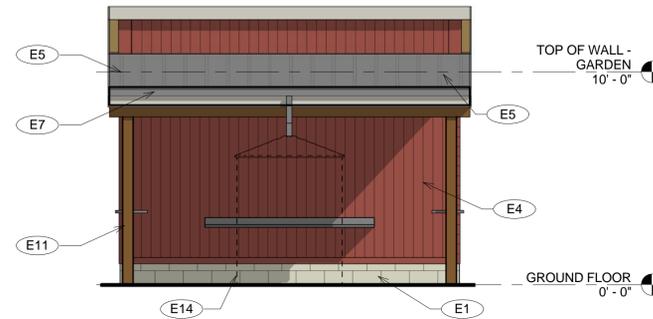
UTILITY DETAILS

Project number: C16146 Sheet:
Date: 05.01.2017
Drawn by: CJJ
Approved by: JWP

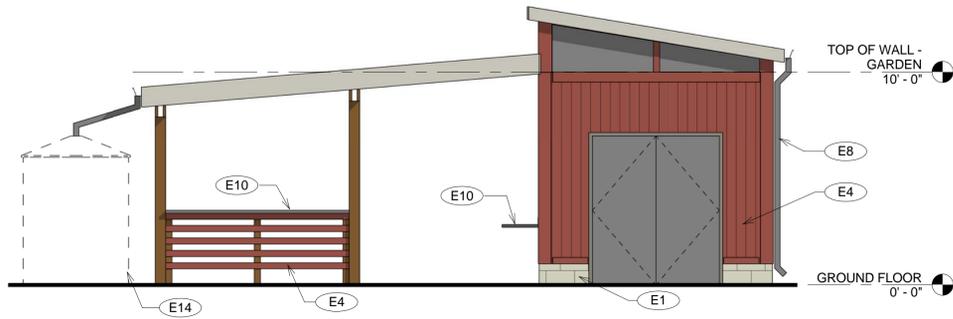
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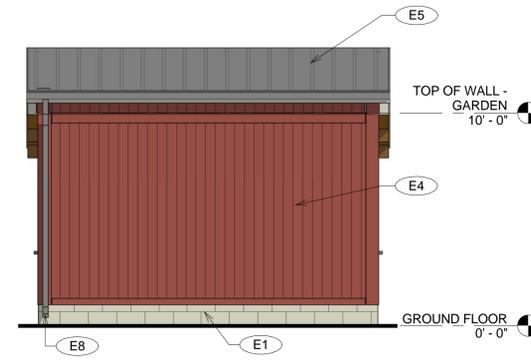
1 PRESENTATION - GARDEN SHELTER - SOUTH ELEVATION
1/4" = 1'-0"



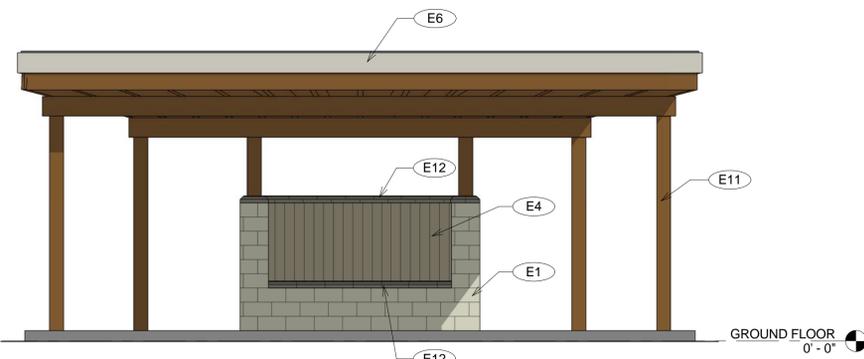
2 PRESENTATION - GARDEN SHELTER - EAST ELEVATION
1/4" = 1'-0"



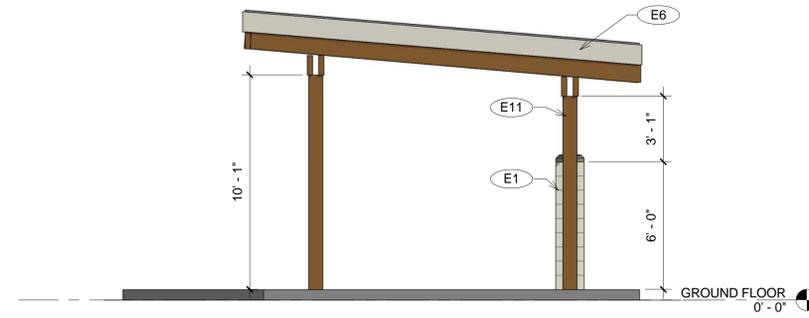
3 PRESENTATION - GARDEN SHELTER - NORTH ELEVATION
1/4" = 1'-0"



4 PRESENTATION - GARDEN SHELTER - WEST ELEVATION
1/4" = 1'-0"



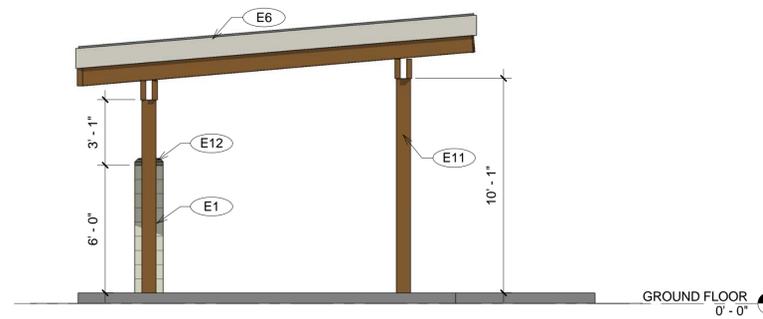
5 PRESENTATION - AMPHITHEATER NORTH ELEVATION
1/4" = 1'-0"



6 PRESENTATION - AMPHITHEATER WEST ELEVATION
1/4" = 1'-0"



7 PRESENTATION - AMPHITHEATER SOUTH ELEVATION
1/4" = 1'-0"



8 PRESENTATION - AMPHITHEATER EAST ELEVATION
1/4" = 1'-0"

KEYNOTES - ELEVATION	
E1	CMU BLOCK
E4	RECLAIMED WOOD SIDING
E5	STANDING SEAM METAL ROOF
E6	CEMENT BOARD ROOF FASCIA
E7	PRE-FINISHED ALUMINUM GUTTER
E8	ALUMINUM DOWNSPOUT
E9	GREEN ROOF (ALTERNATE #1)
E10	EXTERIOR GRADE COUNTERTOP
E11	TREATED COLUMN; SEE STRUCTURAL DRAWINGS
E12	CMU SILL
E14	RAINWATER CISTERN, NOT SHOWN FOR CLARITY - REFERENCE CIVIL



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NO.	REVISION	DATE

JOB NUMBER
16-051
DATE ISSUED
04-27-2017
PROJECT STATUS
DESIGN DEVELOPMENT

SHEET
ELEVATIONS

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1 ARRIVAL PERSPECTIVE VIEW



2 PICNIC SHELTER 2 PERSPECTIVE VIEW



3 RESTROOM PERSPECTIVE VIEW



4 GARDEN SHELTER PERSPECTIVE VIEW



5 AMPITHEATER PERSPECTIVE VIEW



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EXTERIOR PERSPECTIVES

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