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TOTAL SHEETS **36**

SENSITIVE MATERIAL
DO NOT DUPLICATE

PE SEAL



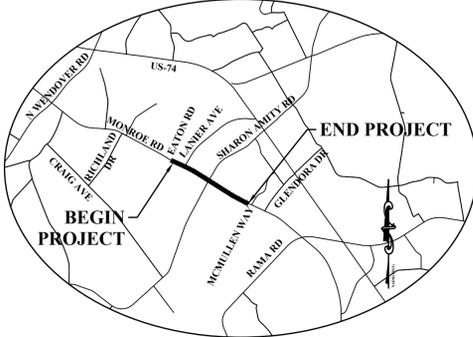
Record Drawings



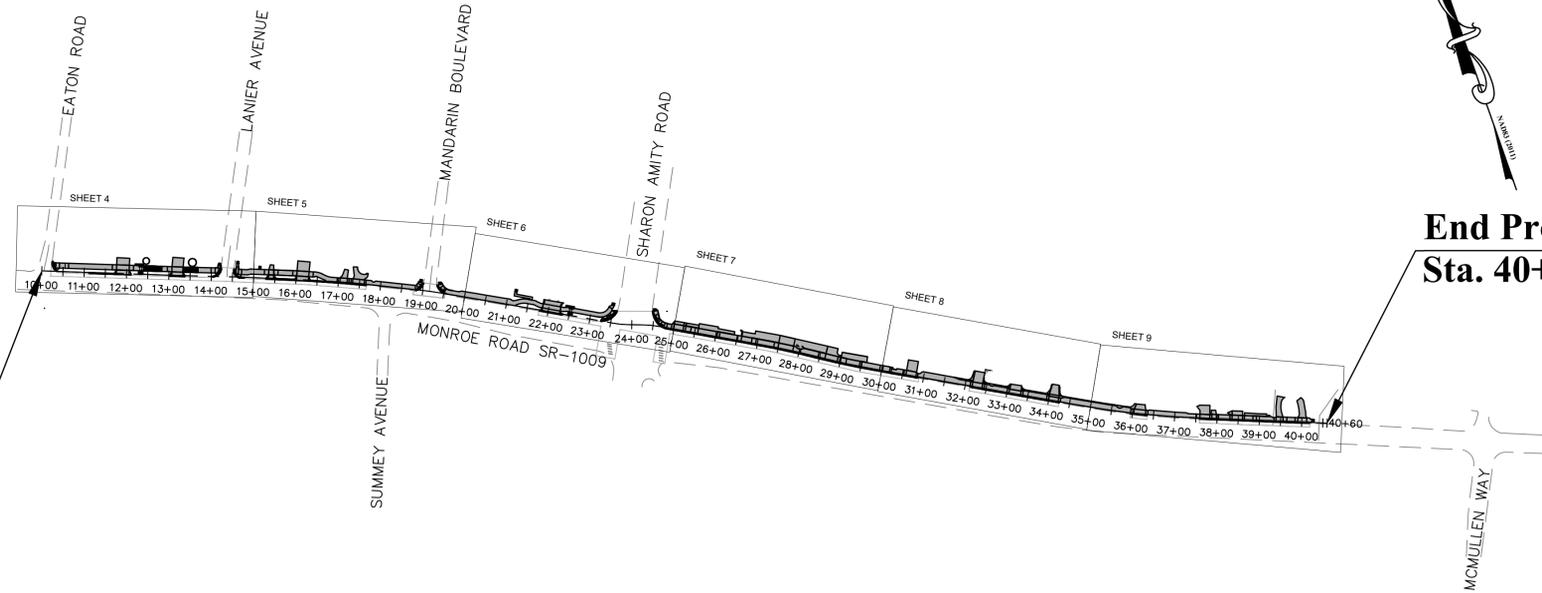
Construction Plans of Proposed
Monroe Road Multi-Use Path
Project No. PMES211694

Project Features:

CONCRETE MULTI-USE PATH, ASPHALT & CONCRETE DRIVEWAY, STORM DRAINAGE, GRADING, MILLING, ASPHALT PAVEMENT, CONCRETE CURB AND GUTTER, PAVEMENT MARKINGS, UTILITY ADJUSTMENTS



VICINITY MAP
NTS



LOCATION MAP
NTS

End Project
Sta. 40+60.00 -L-



Begin Project
Sta. 10+00.00 -L-

SURVEY PREPARED BY:

CITY OF CHARLOTTE SURVEY-MAPPING-GIS FROM THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON STATE PLANE COORDINATES ESTABLISHED BY: NCGS MONUMENT OR CONTROL POINT WITH NAD 83(2011) STATE PLANE COORDINATES OF NORTHING: 529154.89 EASTING: 1469592.75 ELEVATION NAVD: THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984136 VERTICAL DATUM: NAVD 88 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES. DATE RANGE OF SURVEY: 11/18/2021 TO 12/02/2021

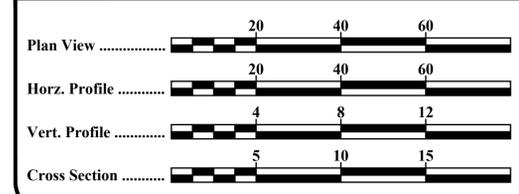
PLANS PREPARED BY:

Kimley»Horn ©2024
NC LICENSE #F-0102
200 South Tryon Street, Suite 200
Charlotte, North Carolina 28202
Phone:(704) 333-5131

PROJECT LENGTH = 0.57 MILES
POSTED SPEED = 40 MPH

2024 NCDOT STANDARD SPECIFICATIONS

GRAPHIC SCALES



Bid Set No. _____

APPROVED

DocuSigned by:
Keith Bryant
FOR CITY ENGINEER
11/21/2024
DATE

100% Plans

Project Name: MONROE ROAD MULTI-USE PATH Project Number: PMES211694

GENERAL NOTES

PROPOSED CURB ELEVATIONS:
THE CONTRACTOR SHALL SET AND ADJUST PROPOSED CURB ELEVATIONS AS NECESSARY TO ENSURE PROPER LONGITUDINAL GRADE FOR DRAINAGE. THE CONTRACTOR SHALL RETAIN EXISTING PAVEMENT, UNLESS OTHERWISE NOTED.

DRIVEWAYS AND SIDEWALKS:
PROPOSED DRIVEWAY ENTRANCE DIMENSIONS ARE FROM EXPANSION JOINT TO EXPANSION JOINT. MATCH REPLACEMENT MATERIALS TO THE EXISTING SURFACE ACCORDINGLY:

- CONCRETE – SIX INCH PORTLAND CEMENT CONCRETE (3600 PSI)
- ASPHALT – (COMMERCIAL) TWO INCH S9.5C COURSE AND FOUR INCH I19.0C INTERMEDIATE COURSE.
(RESIDENTIAL) TWO INCH S9.5B COURSE AND FOUR INCH AGGREGATE BASE (ABC) COURSE.
- GRAVEL – SIX INCH INCIDENTAL STONE

SIDEWALK SHALL BE FOUR INCHES THICK, AND SIX INCHES THICK AT DRIVEWAY CROSSINGS, PER CITY STD. NO. 10.22.
CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 2.1%.
RUNNING SLOPES ALONG SIDEWALKS SHALL NOT EXCEED 5.0%, OR THE ADJACENT ROADWAY SLOPE AS MEASURED AT THE GUTTER PAN, WHICHEVER IS GREATER.
A TURNING SPACE (LANDING) SHALL BE PROVIDED AT ALL LOCATIONS WHERE A PEDESTRIAN MIGHT TURN TO CHANGE DIRECTION OF TRAVEL. THE LANDING SHALL BE A MINIMUM OF 4 FEET BY 4 FEET, UNLESS NOTED BY THE ENGINEER. TYPICALLY LANDING DIMENSIONS WILL MATCH SIDEWALK WIDTH. THE LANDING ALSO SHALL NOT EXCEED 2.1% SLOPE MEASURED PERPENDICULAR TO THE ROADWAY. THE LANDING ALSO SHALL NOT EXCEED 2.1% OR ADJACENT ROADWAY SLOPE, WHICHEVER IS GREATER, MEASURED PARALLEL TO THE ROADWAY.
A CROSS SLOPE TRANSITION PANEL MAY BE REQUIRED WHERE PROPOSED SIDEWALK MEETS EXISTING SIDEWALK WITH A CROSS SLOPE GREATER THAN 2.1%. THE TRANSITION PANEL SHALL NOT EXCEED 2.1% ON THE SIDE OF THE PROPOSED SIDEWALK AND/OR RAMP, AND SHALL MATCH THE EXISTING CROSS SLOPE ON THE SIDE OF THE EXISTING SIDEWALK.

DRAINAGE STRUCTURES:
GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS. STATIONS, OFFSETS AND ELEVATIONS REFER TO THE CENTER OF DROP INLETS, MANHOLES AND JUNCTION BOXES, AND THE MIDPOINT OF THE LIP FOR CATCH BASINS, PIPE AND BOX CULVERT LENGTHS ARE REPORTED IN THE CONSTRUCTION DOCUMENTS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, INCLUDING TRANSITIONS, HORIZONTAL AND VERTICAL BENDS. ALL PIPES SHALL BE RCP CLASS III, UNLESS OTHERWISE NOTED.
WEEP HOLES ARE TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER. IF REQUIRED, WEEP HOLES ARE TO BE CONSTRUCTED IN THE BOTTOM ¼ OF THE STRUCTURE. ATTACH HARDWARE CLOTH (ALUMINUM OR GALVANIZED STEEL NO. 4 WIRE REINFORCEMENT) TO THE OUTSIDE OF THE STRUCTURE WITH HEAVY DUTY CONSTRUCTION ADHESIVE OVER THE WEEP HOLE. PLACE A POROUS FABRIC BAG FILLED WITH ONE CUBIC FOOT OF NO. 78M STONE AT EACH WEEP HOLE AGAINST THE HARDWARE CLOTH. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

UTILITIES:
UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CITY WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION.
PRIOR TO CONSTRUCTION AND VIA THE CITY UTILITY COORDINATOR AND CITY INSPECTOR, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITIES AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. THE CONTRACTOR SHALL HOLD THE CITY HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY.
AS NEEDED, THE CONTRACTOR SHALL ADJUST/RELOCATE THE SANITARY SEWER AND WATER LINES ONLY. ALL OTHER ADJUSTMENTS/RELOCATIONS WILL BE PERFORMED BY THE VARIOUS UTILITY OWNERS. VIA THE CITY UTILITY COORDINATOR AND CITY INSPECTOR, THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITY OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE. THE CITY WILL NOT BE HELD RESPONSIBLE FOR ANY DELAYS OR DISRUPTIONS TO THE WORK SCHEDULE OF OTHER UTILITY OWNERS. THE CONTRACTOR SHALL STAY A MINIMUM OF 5 FEET AWAY FROM ALL UTILITY POLES.

- FOR UTILITY LOCATES CALL NORTH CAROLINA ONE-CALL @ 1-800-632-4949.
- WARNING: OVERHEAD UTILITIES. UNLESS OTHERWISE NOTED FOR RELOCATION, THE CONTRACTOR IS TO WORK UNDER ALL EXISTING OVERHEAD UTILITIES.

THE CONTRACTOR SHALL ADJUST ALL WATER VALVES, WATER METER BOXES AND WATER VAULTS TO FINISHED GRADE. WATER METERS LOCATED IN SIDEWALKS OR CONCRETE DRIVEWAYS SHALL BE INSTALLED WITHIN CONCRETE BOXES.

GAS LINES WILL BE ADJUSTED/RELOCATED AS NEEDED BY PIEDMONT NATURAL GAS. VIA THE CITY UTILITY COORDINATOR AND CITY INSPECTOR, THE CONTRACTOR SHALL CONTACT PIEDMONT NATURAL GAS AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.

EXISTING SANITARY SEWER AND WATER LINE:
PRIOR TO THE BEGINNING OF ANY WATER AND/OR SANITARY SEWER WORK, CONTACT THE CHARLOTTE WATER PROJECT MANAGER, AND AN INSPECTOR WILL BE PROVIDED FOR WORK OVERSIGHT.

WHERE SANITARY SEWERS AND WATER LINES ARE ENCOUNTERED, THE CONTRACTOR SHALL USE CARE IN WORKING AROUND OR NEAR THEM. IF AN EXISTING SEWER OR WATER LINE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPORT THE PROBLEM TO CHARMECK 311 AND THE CHARLOTTE WATER PROJECT MANAGER AND INSPECTOR, AND REPLACE THE SEWER OR WATER LINE WITH CLASS 350 DUCTILE IRON PIPE. THE CONTRACTOR SHALL REPLACE A MINIMUM OF 18 FEET OF SANITARY SEWER AND/OR WATER LINE WITH CLASS 350 DUCTILE IRON PIPE WHEN ANY OF THE MINIMUM SEPARATION DISTANCES OUTLINED IN THE SPECIAL PROVISIONS FOR THIS PROJECT ARE NOT MET. ALL WATER VALVES, WATER METER BOXES, AND WATER VAULTS AFFECTED BY THIS CONSTRUCTION ARE TO BE ADJUSTED TO THE FINISHED GRADE BY THE CONTRACTOR.

WATER AND SEWER MAINS ARE TO REMAIN ACTIVE DURING CONSTRUCTION. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL FOLLOW CHARLOTTE WATER PROCEDURES AS OUTLINED IN THE DESIGN MANUAL AND SPECIAL PROVISIONS REGARDING OUTAGES, TEMPORARY WATER SERVICE AND BYPASS SEWER PUMPING. ALL PLANNED OUTAGES ARE TO BE COORDINATED WITH CHARLOTTE WATER, WITH A MINIMUM OF 72 HOURS NOTICES TO THE AFFECTED RESIDENTS AND BUSINESSES.

SANITARY SEWER AND WATER SERVICE LATERALS ARE NOT SHOWN ON THESE PLANS AND WILL BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH CHARLOTTE WATER PERSONNEL TO ENSURE THAT ALL EXISTING SERVICES ARE RELOCATED AND KEPT IN SERVICE. THIS WORK IS INCIDENTAL TO ALL CONSTRUCTION ACTIVITIES.

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR MAY MAKE HIS OWN INVESTIGATION TO DETERMINE SUBSURFACE CONDITIONS.

MAIL BOXES:
THE CONTRACTOR SHALL RELOCATE ALL MAIL BOXES AS REQUIRED BY SECTION 107-11 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. COORDINATE THIS WORK WITH THE U.S. POSTAL SERVICE.

GENERAL NOTES

FENCES:
THE CONTRACTOR SHALL REMOVE AND RESET FENCES AS NOTED ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

TREES, SHRUBS, AND HEDGES:
THE CONTRACTOR IS REQUIRED TO REMOVE TREES, SHRUBS, AND HEDGES WITHIN THE EASEMENT LINES UNLESS SHOWN ON THE PLANS TO BE PROTECTED. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS EXTERNALLY USING A DISC TRENCHER IN ACCORDANCE WITH SECTION 01000 OF THE CITY OF CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS. PRUNING SHALL BE PER THE LATEST STANDARD OF THE LANDSCAPE CONSTRUCTION STANDARDS MANUAL (TYP.) USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK. USE CLD STD. 40.11 FOR BRIDGING TREE ROOTS. TREES SPECIFIED BY THE PLANS TO HAVE ASPHALT CURBING MUST USE CLD STD. 40.13. TREE PROTECTION SHALL BE IN ACCORDANCE WITH CLD STD. 40.02. WHEN THE TREE IS CLOSE TO THE WORK AREA TREE PROTECTION CLD STD. 40.12 SHALL BE USED. CONTRACTOR REQUIRED TO ADHERE TO CITY'S LANDSCAPE CONSTRUCTION STANDARDS MANUAL, SECTION 01000 TREE PRESERVATION AND PROTECTION

SIDE SLOPES:
LIMITS OF PROPOSED SLOPES ARE INDICATED IN THE PLANS, DETAILS AND STANDARD DRAWINGS. THE MAXIMUM SLOPE SHALL NOT EXCEED A 3:1 (HORIZONTAL TO VERTICAL) UNLESS DESIGNATED BY THE ENGINEER. A CUT SLOPE OF 2:1 MAXIMUM WILL BE USED ONLY AS DIRECTED BY THE ENGINEER.

EROSION CONTROL:
THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROPRIATE CITY AND STATE EROSION AND SEDIMENT CONTROL ORDINANCES. THE CONTRACTOR SHALL PREVENT STANDING WATER DUE TO CONSTRUCTION. DISTURBED AREAS SHALL BE SEEDED AND MULCHED AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL FOLLOW THE EROSION CONTROL MEASURES SHOWN ON SHEETS EC1 – EC6.

ACCESSIBLE RAMPS AND DEPRESSED CURB:
THE CONTRACTOR SHALL CONSTRUCT 6-INCH THICK CONCRETE ACCESSIBLE CURB RAMPS AT INTERSECTIONS IN ACCORDANCE WITH THE LATEST REVISIONS FOR ACCESSIBLE CURB RAMPS DETAILS, "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (PROWAG), CONSTRUCTION PLANS & NCDOT STANDARD DRAWINGS.
RUNNING SLOPES ALONG CURB RAMPS SHALL NOT EXCEED 8.3%, BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL PANELS OF THE RAMP MUST EQUAL THE SAME PERCENTAGE.
FLARES SHALL BE 10.0% MAXIMUM SLOPE (WHERE APPLICABLE), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
RAMP CROSS SLOPE SHALL NOT EXCEED 2.1% OR THE ADJACENT ROADWAY SLOPE AS MEASURED AT THE GUTTER PAN, WHICHEVER IS GREATER.
A TURNING SPACE (LANDING) SHALL BE PROVIDED AT ALL LOCATIONS WHERE A PEDESTRIAN MIGHT TURN TO CHANGE DIRECTION OF TRAVEL. THE LANDING SHALL BE A MINIMUM OF 4 FEET BY 4 FEET, UNLESS NOTED BY THE ENGINEER. TYPICALLY LANDING DIMENSIONS WILL MATCH SIDEWALK WIDTH. THE LANDING SHALL NOT EXCEED 2.1% SLOPE MEASURED PERPENDICULAR TO THE ROADWAY. THE LANDING ALSO SHALL NOT EXCEED 2.1% OR ADJACENT ROADWAY SLOPE, WHICHEVER IS GREATER, MEASURED PARALLEL TO THE ROADWAY.

SAWCUTS:
THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SAW CUT WIDTH SHALL BE 1 FOOT MINIMUM FROM THE EXISTING EDGE OF PAVEMENT. SAW CUT PAVEMENT SHALL BE REPLACED AS WELL AS ADDITIONAL PAVEMENT REQUIRED TO TIE-IN TO FACE OF PROPOSED CURB AND GUTTER.

TRAFFIC CONTROL:
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH). THE CONTRACTOR SHALL FOLLOW THE TRAFFIC CONTROL MEASURES SHOWN ON SHEET TCI.

STANDARDS

THE FOLLOWING STANDARDS AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE CONSIDERED A PART OF THESE PLANS. NCDOT STANDARDS SHALL BE USED. CHARLOTTE LAND DEVELOPMENT STANDARDS MAY BE USED IF THERE IS NOT AN APPLICABLE NCDOT STANDARD.

CHARLOTTE:

STD. NO.:	TITLE:
10.17A	STANDARD CURB AND GUTTER
10.18	18" VERTICAL CURB
10.22	CONCRETE SIDEWALKS
10.23	SIDEWALK TRANSITION
10.24A	COMMERCIAL TYPE II DRIVEWAY W/ SIDEWALK ABUTTING CURB (2'-6" CURB & GUTTER)
10.25B	COMMERCIAL DROP CURB TYPE II DRIVEWAY W/ PLANTING STRIP (2'-6" CURB & GUTTER)
10.25E	MODIFIED TYPE II DRIVEWAY DETAIL WITH PLANTING STRIP
10.35A	PLACEMENT OF CURB RAMPS AT OBSTRUCTED OR SMALL CORNER RADIUS
10.35B	TRUNCATED DOMES PLAN AND GROSS SECTION
10.40A	DIRECTIONAL CURB RAMP WITH SMALL/MEDIUM CURB RADI
20.22	FLARED END SECTION 12" TO 72"
30.06A	TEMPORARY SILT FENCE
30.06C	SILT FENCE OUTLET
30.11A	STABILIZED CONSTRUCTION ENTRANCE
30.15	CATCH BASIN INLET PROTECTION
40.02	TREE PROTECTION DETAIL
40.11	REINFORCED CONCRETE SIDEWALK (BRIDGING TREE ROOTS)
40.12	TEMPORARY TREE TRUNK PROTECTION DETAIL
50.14	PIANO STYLE CROSSWALK
50.09B	PARKING STANDARDS

NCDOT:

STD. NO.:	TITLE:
300.01	METHOD OF PIPE INSTALLATION
838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
840.01	BRICK CATCH BASIN
840.03	FRAME, GRATES, AND HOOD
840.14	CONCRETE DROP INLET
840.16	DROP INLET FRAME AND GRATES
840.31	CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE)
840.54	MANHOLE FRAME AND COVER
840.72	PIPE COLLAR
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS
848.06	CURB RAMP
1101.01	WORK ZONE ADVANCED WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1150.01	FLAGGING DEVICES
1205.08	PAVEMENT MARKINGS

CATS:

STD. NO.:	TITLE:
60.05A	CATS WAITING PAD

ABBREVIATIONS

ABAND.....ABANDONED
A.D.....ALGEBRAIC DIFFERENCE
ASPH.....ASPHALT
APPROX.....APPROXIMATELY
BOC.....BACK OF CURB
BIT.....BITUMINOUS
BM.....BENCH MARK
BRG.....BEARING
CB.....CATCH BASIN
C&G.....CURB AND GUTTER
CL.....CLEARANCE
C/L FENCE.....CHAIN LINK FENCE
CMP.....CORRUGATED MTL PIPE
CONC.....CONCRETE
CONST.....CONSTRUCTION
DB.....DEED BOOK
DCB.....DOUBLE CB
DI.....DROP INLET
DIA.....DIAMETER
DW.....DRIVEWAY
DIM.....DIMENSION
E.....EAST/EASTING
EA.....EACH
ELEV.....ELEVATION
EOP.....EDGE OF PAVEMENT
ESMT.....EASEMENT
EXIST.....EXISTING
F/C.....FACE OF CURB
FES.....FLARED END SECTION
FH.....FIBER OPTIC CABLE
FOC.....FIBER OPTIC CABLE
GV.....GAS VALVE
HORIZ.....HORIZONTAL
INT.....INTERSECTION
INV.....INVERT
IP.....IRON PIN SET
L.....LENGTH
LF.....LINEAR FOOTAGE
LT.....LEFT
lb.....POUND
LP.....LIGHT POLE
MAX.....MAXIMUM
MIN.....MINIMUM
MONO.....MONOLITHIC
mph.....MILES PER HOUR
MTL.....METAL
N.....NORTH/NORTHING
NTS.....NOT TO SCALE
O/H.....OVER HEAD
OC.....ON CENTER
PAVT.....PAVEMENT
PG.....POINT OF CURVATURE
PERM.....PERMANENT
PG.....PAGE
PI.....POINT OF INT
PK.....PK NAIL SET
PP.....POWER POLE
PROP.....PROPOSED
PSE.....PERM SW ESMT
PT.....POINT OF TANGENCY
PV.....POINT OF VERT INT
r.....RADIUS
RT.....RIGHT
RCP.....REINFORCED CONC PIPE
RELOC.....RELOCATE
R/W.....RIGHT OF WAY
S.....SOUTH
SD.....STORM DRAIN
SF.....SQUARE FOOT
S/R FENCE.....SPLIT RAIL FENCE
SS.....SANITARY SEWER
STA.....STATION
STD.....STANDARD
SW.....SIDEWALK
TAN.....TANGENT
TCE.....TEMP CONST ESMT
TEMP.....TEMPORARY
TP.....TRANSVERSE POINT
T/W.....TEST WIRE
TYP.....TYPICAL
U/G.....UNDER GROUND
UTE.....PERM UTILITY ESMT
VC.....VERTICAL CURVE
VERT.....VERTICAL
W.....WEST
W/.....WITH
WM.....WATER METER
W VAULT.....WATER VAULT
WV.....WATER VALVE
60P.....SIXTY PENNY NAIL SET
'.....FOOT
".....INCH

CONVENTIONAL SIGNS

Proposed Property Line - - - - -
Existing Property Line - - - - -
Maintained as R/W Line - - - - -
Slope Stake Cut line C C
Slope Stake Fill line F F
Conservation Easement CE CE
Temporary Construction Easement e e
Sidewalk/Utility Easement SUE SUE
Storm Drainage Easement SDE SDE
Utility Easement UTE UTE
Post Construction Controls Easement PCCE
Existing Easement E
Existing Gas Line G G
Proposed Gas Line G G
Existing Water Line w w
Proposed Water Line w w
Existing Sanitary Sewer SS SS
Proposed Sanitary Sewer SS SS
Existing Underground Telecommunications UT UT
Existing Underground Electric UE UE
Existing Overhead Utilities OU OU
Existing Overhead Electric OE OE
Existing Overhead Telephone OT OT
Existing Underground Cable TV TV TV
Existing Underground Fiber Optic FO FO
Existing Overhead Fiber Optic OF OF
Proposed Underground UU UU
Proposed Overhead OU OU
Existing Storm Drainage - - - - -
Proposed Storm Drainage - - - - -
Existing Guardrail - - - - -
Proposed Guardrail - - - - -
Existing Fence - - - - -
Proposed Fence - - - - -
Silt Fence - - - - -
Proposed Safety Rail - - - - -
Creek/Ditch - - - - -
Railroad Tracks - - - - -
Accessible Ramp Domes - - - - -
Tree Protection - - - - -
Tree Trunk Protection - - - - -
Proposed Curb & Gutter, Conc. Drive, Sidewalk - - - - -
Proposed Asphalt Pavement - - - - -
Proposed Rip Rap Ditch - - - - -
Proposed Gravel - - - - -
Proposed Pavement Removal - - - - -
Proposed Sidewalk Bridging Tree Roots - - - - -
Sidewalk Cross Slope Transition - - - - -
Asphalt Milling - - - - -
Wall Demoliton x x
Proposed Sawcut ● ● ● ● ● ●

CONVENTIONAL SIGNS

Existing Tree
Existing Water Meter
Existing Water Valve
Proposed Water Valve
Existing Gas Valve
Existing Sanitary Sewer Manhole
Proposed Sanitary Sewer Manhole
Existing Storm Drain Manhole
Proposed Storm Drain Manhole
Existing Telephone Manhole
Proposed Telephone Manhole
Existing Electric Manhole
Proposed Electric Manhole
Existing Catch Basin
Proposed Catch Basin
Existing Light Pole
Proposed Light Pole
Existing Utility Pole
Guy Wire
Proposed Utility Pole
Iron Pin
Existing Fire Hydrant
Proposed Fire Hydrant
Existing Drop Inlet
Proposed Drop Inlet

Know what's below.
Call before you dig.

Kimley»Horn
 Plans Prepared By:
 NC License #0102
 200 South Tryon Street, Suite 200
 Charlotte, NC 28202

NO.	DATE	BY	DESCRIPTION

AS NOTED SCALE
ARM CHECKED BY
10-28-2024
DATE

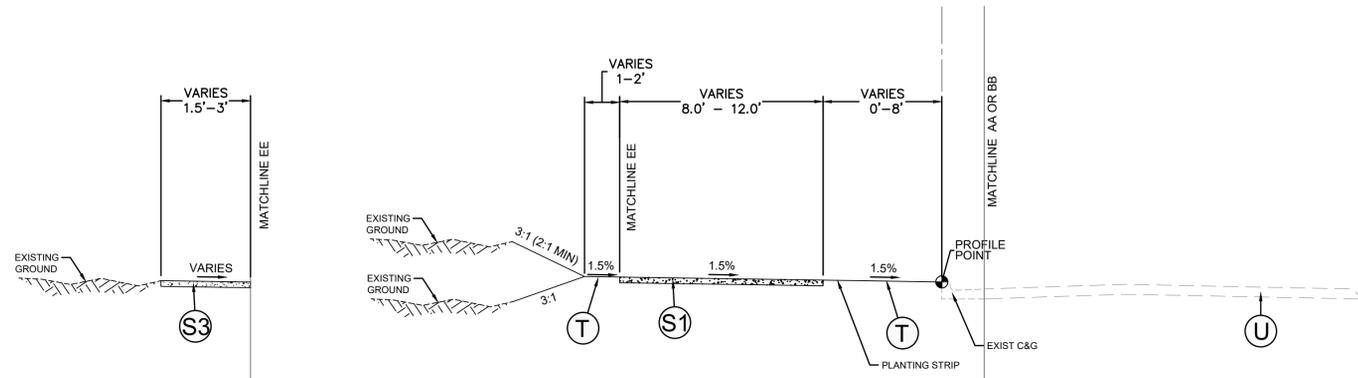
PREPARED BY
EAC
APPROVED BY
BST

MONROE ROAD MULTI-USE PATH

GENERAL NOTES AND DETAILS

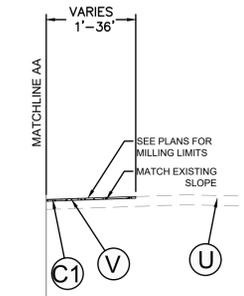
SHEET **2** OF **2D**

Plotted By: R. Davis, Denny Sheet Set: Monroe Road MUP Layout: 3 TYPICAL SECTIONS October 25, 2024 10:59:58am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C30-TYPICAL SECTIONS.dwg



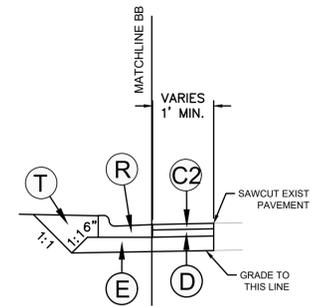
**TYPICAL SECTION NO. 1
CONCRETE MULTI-USE PATH**

- NOT TO SCALE
- L- STA 10+21 TO STA 14+20
 - L- STA 14+66 TO STA 18+83
 - L- STA 19+53 TO STA 23+44
 - L- STA 36+36 TO STA 37+58
 - L- STA 40+20 TO STA 40+24



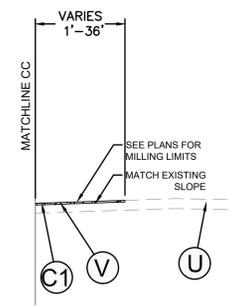
TYPICAL SECTION AA

- L- STA 10+21 TO STA 10+46
- L- STA 11+10 TO STA 17+67
- L- STA 18+78 TO STA 19+53
- L- STA 21+78 TO STA 23+70



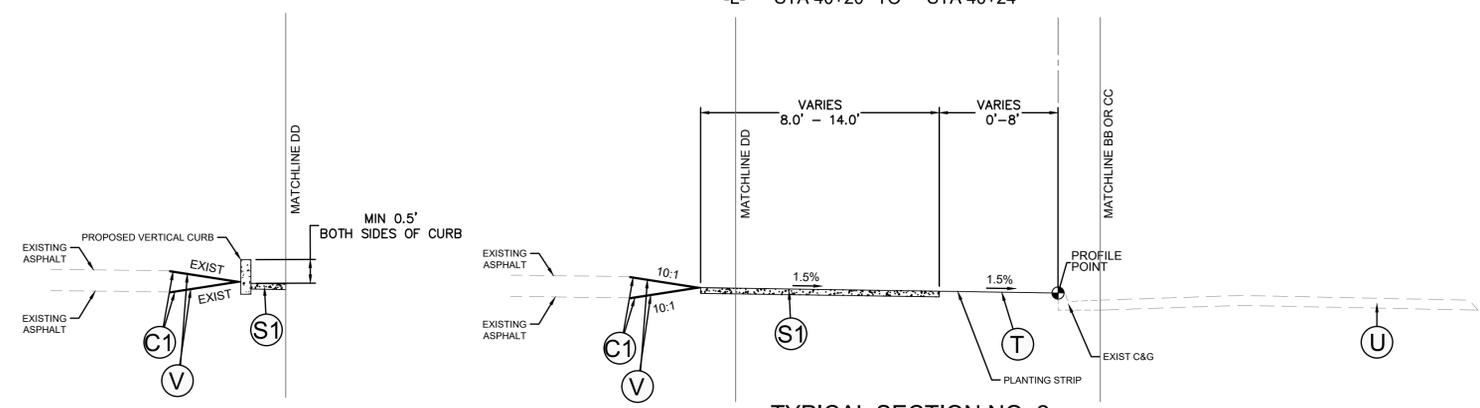
SAWCUT DETAIL - TYPICAL SECTION BB

- L- STA 10+23 TO STA 10+34
- L- STA 11+12 TO STA 11+57
- L- STA 14+16 TO STA 14+23
- L- STA 14+52 TO STA 14+60
- L- STA 18+83 TO STA 19+01
- L- STA 19+31 TO STA 19+50
- L- STA 23+27 TO STA 23.62
- L- STA 24+46 TO STA 24+80



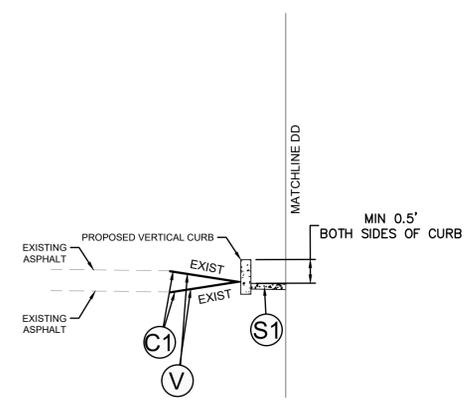
TYPICAL SECTION CC

- L- STA 24+34 TO STA 30+90
- L- STA 32+10 TO STA 34+26
- L- STA 35+95 TO STA 36+36
- L- STA 37+58 TO STA 40+20



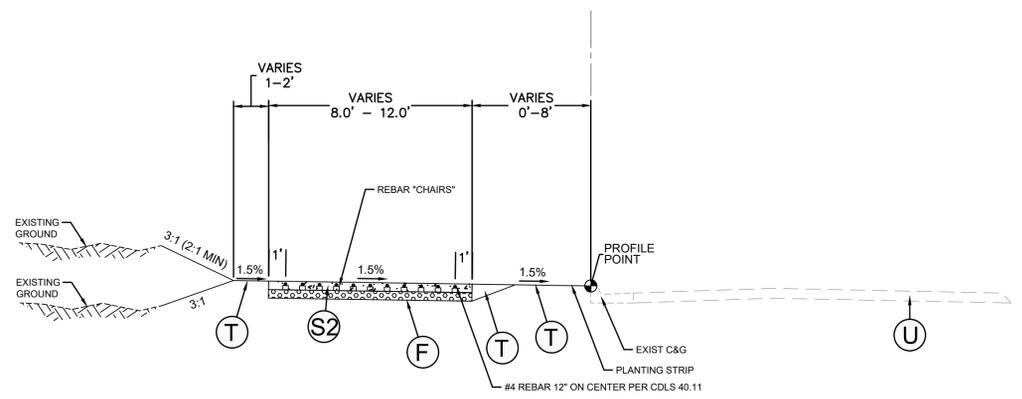
**TYPICAL SECTION NO. 2
CONCRETE MULTI-USE PATH**

- NOT TO SCALE
- L- STA 24+79 TO STA 36+36
 - L- STA 37+58 TO STA 40+20



TYPICAL SECTION DD

- NOT TO SCALE
- L- STA 25+27 TO STA 25+57
 - L- STA 26+03 TO STA 26+43
 - L- STA 26+86 TO STA 27+49
 - L- STA 28+11 TO STA 28+63
 - L- STA 28+95 TO STA 29+13
 - L- STA 29+46 TO STA 29+63
 - L- STA 38+85 TO STA 39+17



**TYPICAL SECTION NO. 3
CONCRETE MULTI-USE PATH**

- NOT TO SCALE
- L- STA 12+39 TO STA 12+83
 - L- STA 13+32 TO STA 13+68

PAVEMENT SCHEDULE	
(C1)	PROPOSED 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE (S9.5C) AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE (S9.5C) AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.
(D)	PROPOSED APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE TYPE (I9.0C) AT AN AVERAGE RATE OF 456 LBS PER SQ. YD.
(E)	PROPOSED APPROX. 8" ASPHALT CONC. BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS PER SQ. YD. IN EACH OF 2 LAYERS.
(F)	PROPOSED WASHED #57 STONE PER CLDS 40.11
(R)	PROPOSED 2'-6" CONCRETE CURB & GUTTER
(S1)	4" CONCRETE MULTI-USE PATH SEE DETAIL 5
(S2)	6" REINFORCED CONCRETE MULTI-USE PATH
(S3)	12" STAMPED BRICK PATTERN ON 4" CONCRETE MULTI-USE PATH
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	MILLING APPROX. 1.5"

- NOTES:
- SEE PLANS FOR VARYING CROSS SLOPES.
 - SLOPE MUP AND SHOULDERS PER PLANS.
 - SEE CROSS-SECTIONS FOR SHOULDER WIDTHS AND VARYING CUT/FILL SLOPES. A MAXIMUM CUT/FILL SLOPE OF 2:1 SHALL BE USED THROUGHOUT.
 - PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
 - STATIONS SHOWN UNDER TYPICAL SECTIONS ARE ROUNDED TO THE NEAREST STATION NUMBER. SEE PLAN SHEETS FOR EXACT STATION LOCATION.
 - CONTRACTOR MUST SEAL ALL JOINTS. SEAL MUST BE NON-SHRINKING AND FLUSH WITH FINISHED GRADE OF THE PATH.
 - ALL CONCRETE SHALL BE AT LEAST 3600 PSI COMPRESSIVE STRENGTH.



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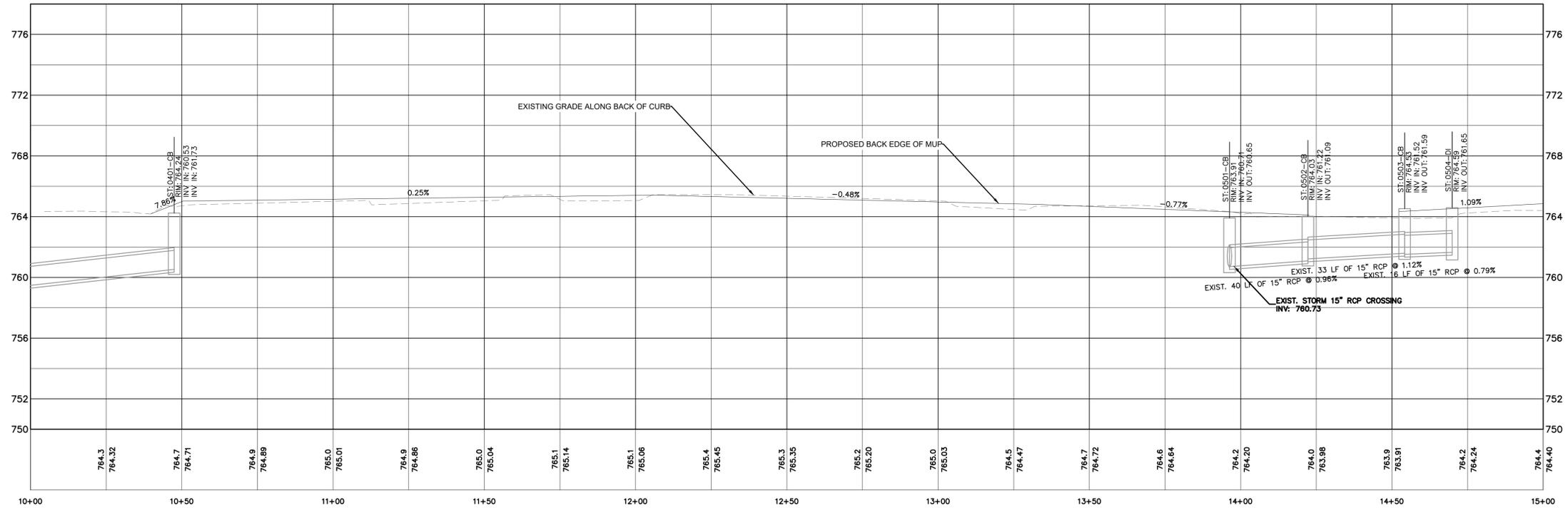


AS NOTED	SCALE	ARM	CHECKED BY	DATE
				10-25-2024

PMS211694	JOB NO.	EAC	PREPARED BY	BST	APPROVED BY

SHEET	MONROE ROAD MULTI-USE PATH	
	3	OF 3
TYPICAL SECTIONS		

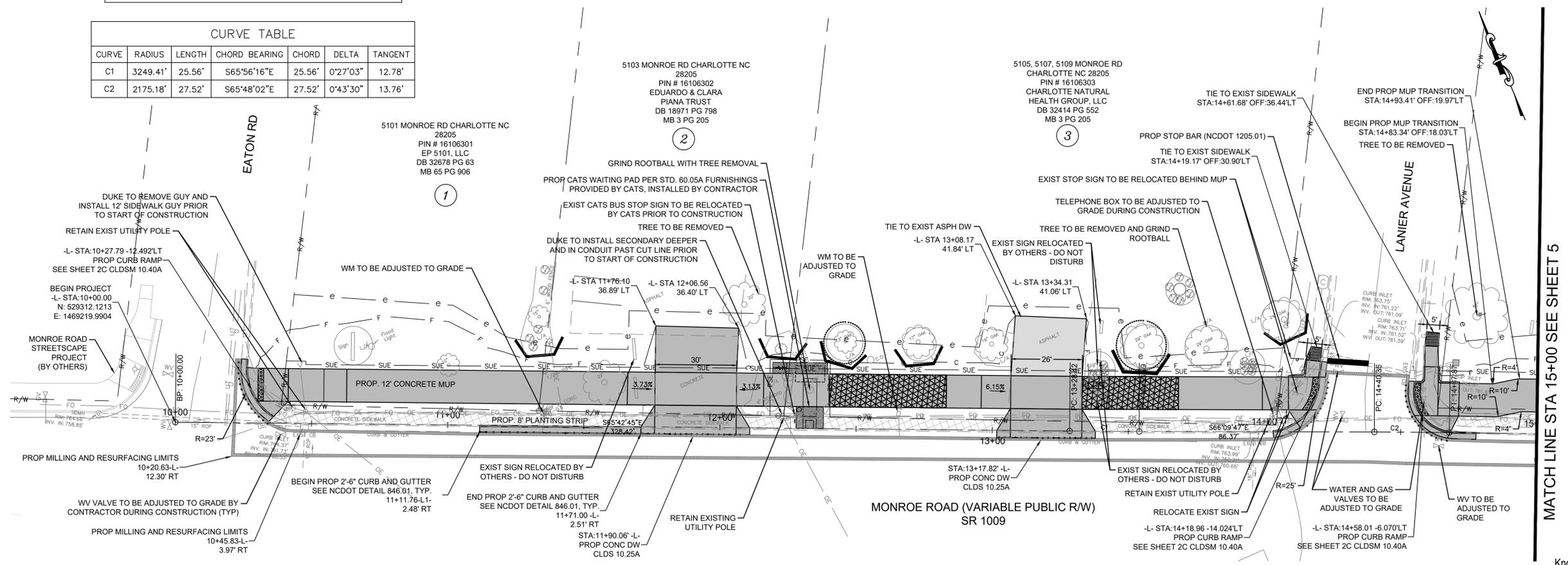
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NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.

L- PROFILE
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=4'

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	3249.41'	25.56'	S65°56'16"E	25.56'	0°27'03"	12.78'
C2	2175.18'	27.52'	S65°48'02"E	27.52'	0°43'30"	13.76'



MATCH LINE STA 15+00 SEE SHEET 5



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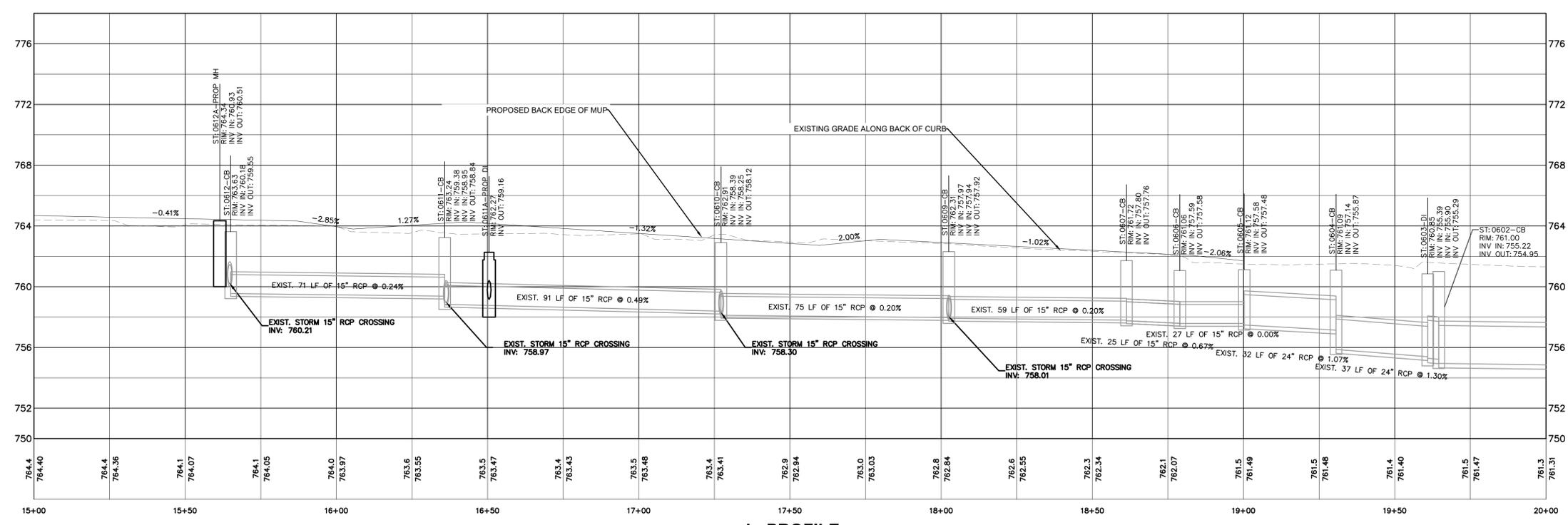


1" = 20' SCALE	ARM CHECKED BY	10-25-2024 DATE
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MONROE ROAD MULTI-USE PATH	
SHEET 4	OF 9
PLAN AND PROFILE STA. 10+00 TO 15+00	

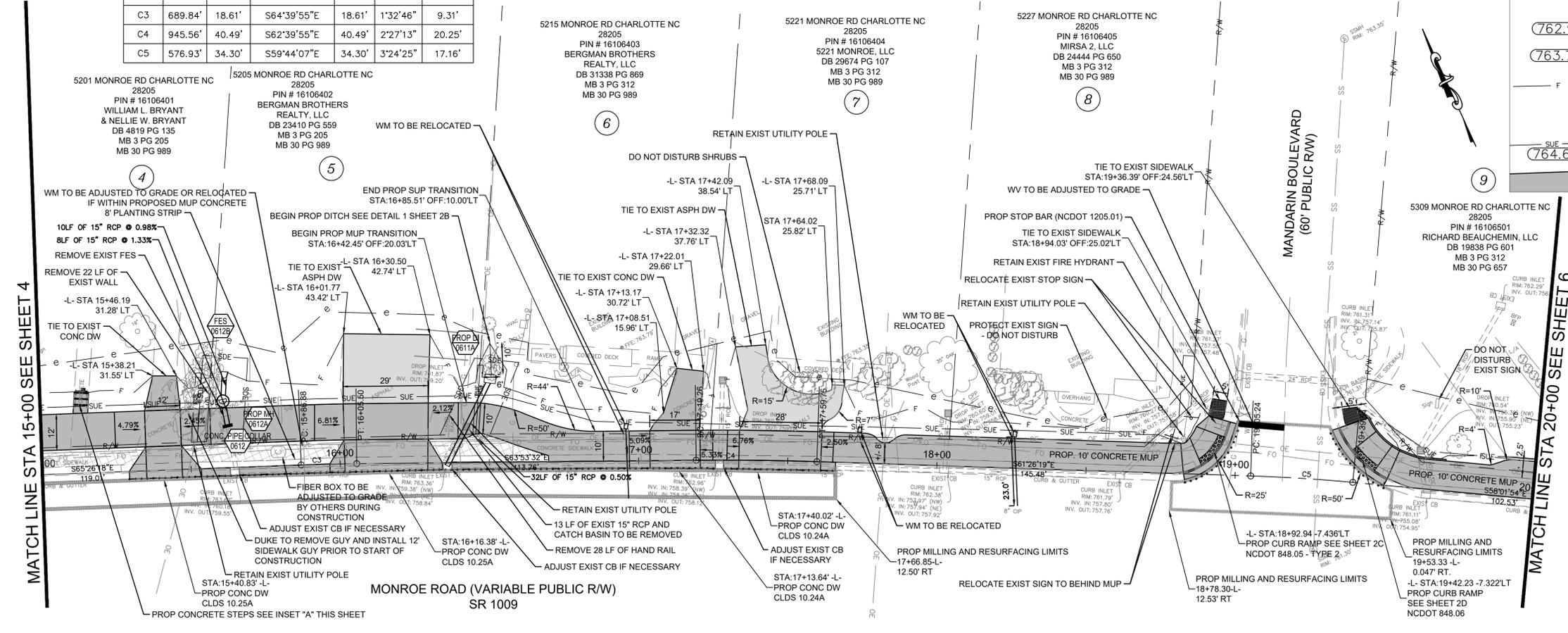
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-L- PROFILE

HORIZ SCALE: 1"=20'
VERT SCALE: 1"=4'

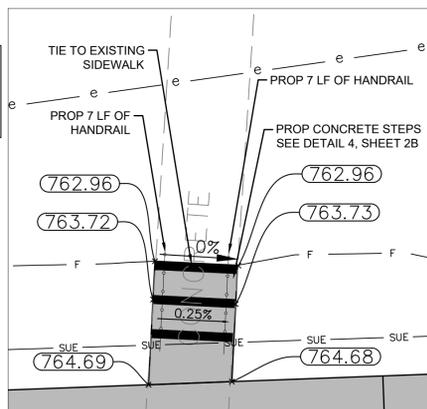
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C3	689.84'	18.61'	S64°39'55"E	18.61'	1°32'46"	9.31'
C4	945.56'	40.49'	S62°39'55"E	40.49'	2°27'13"	20.25'
C5	576.93'	34.30'	S59°44'07"E	34.30'	3°24'25"	17.16'



MATCH LINE STA 15+00 SEE SHEET 4

MATCH LINE STA 20+00 SEE SHEET 6

NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



INSET "A"
SCALE: 1" = 5'



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			10-25-2024

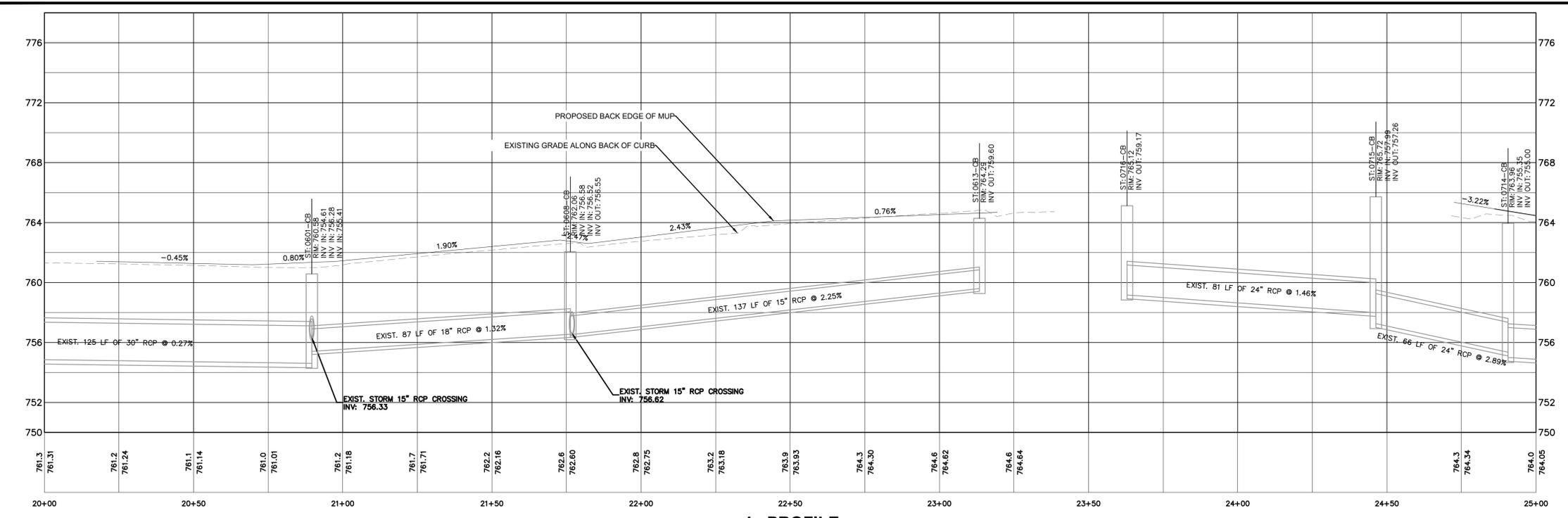
PMES211694- JOB NO.	EAC	PREPARED BY	BST	APPROVED BY	DATE

**MONROE ROAD
MULTI-USE PATH**

**PLAN AND PROFILE STA.
15+00 TO 20+00**

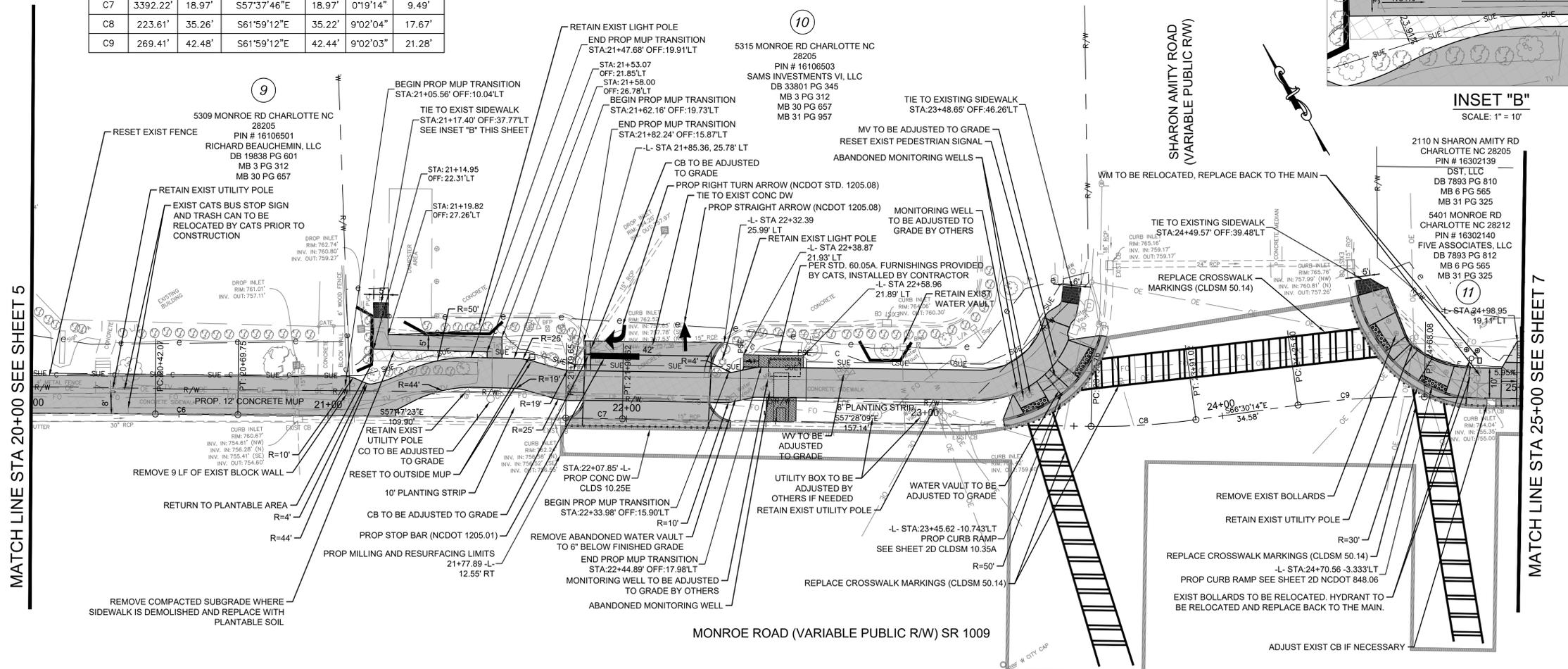
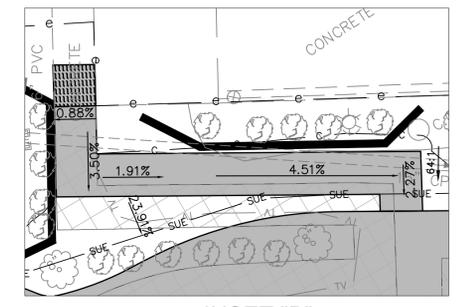
SHEET **5** OF **9**

Plotted By: Rowland, Denny Sheet: Sekt: Monroe Road MUP Layout: 1.6 October, 25, 2024 11:00:42am K:\CHITL_FR\A\015016 City of Charlotte\241 South Pedestrian_Monroe Rd MUP\04_CADD\Plans\Sheets\C40-PLAN AND PROFILE.dwg



CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C6	6552.61'	27.68'	S57°54'39"E	27.68'	0°14'31"	13.84'
C7	3392.22'	18.97'	S57°37'46"E	18.97'	0°19'14"	9.49'
C8	223.61'	35.26'	S61°59'12"E	35.22'	9°02'04"	17.67'
C9	269.41'	42.48'	S61°59'12"E	42.44'	9°02'03"	21.28'

NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



MATCH LINE STA 20+00 SEE SHEET 5

MATCH LINE STA 25+00 SEE SHEET 7



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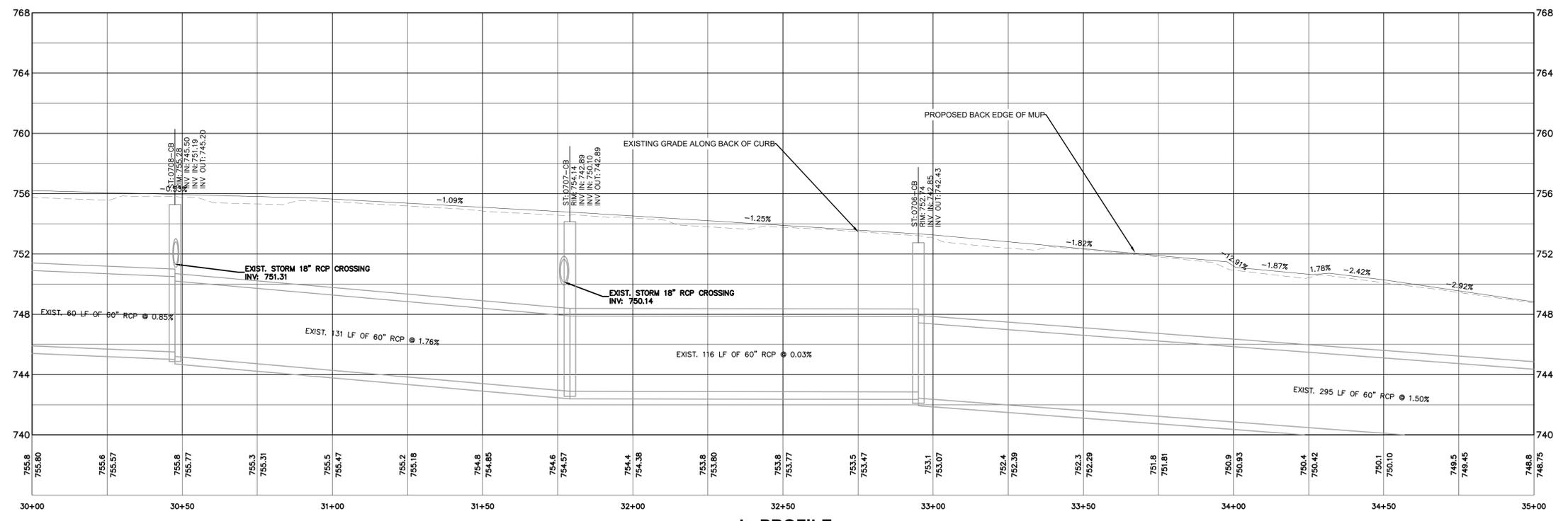
PREPARED BY	APPROVED BY

MONROE ROAD MULTI-USE PATH
PLAN AND PROFILE STA. 20+00 TO 25+00



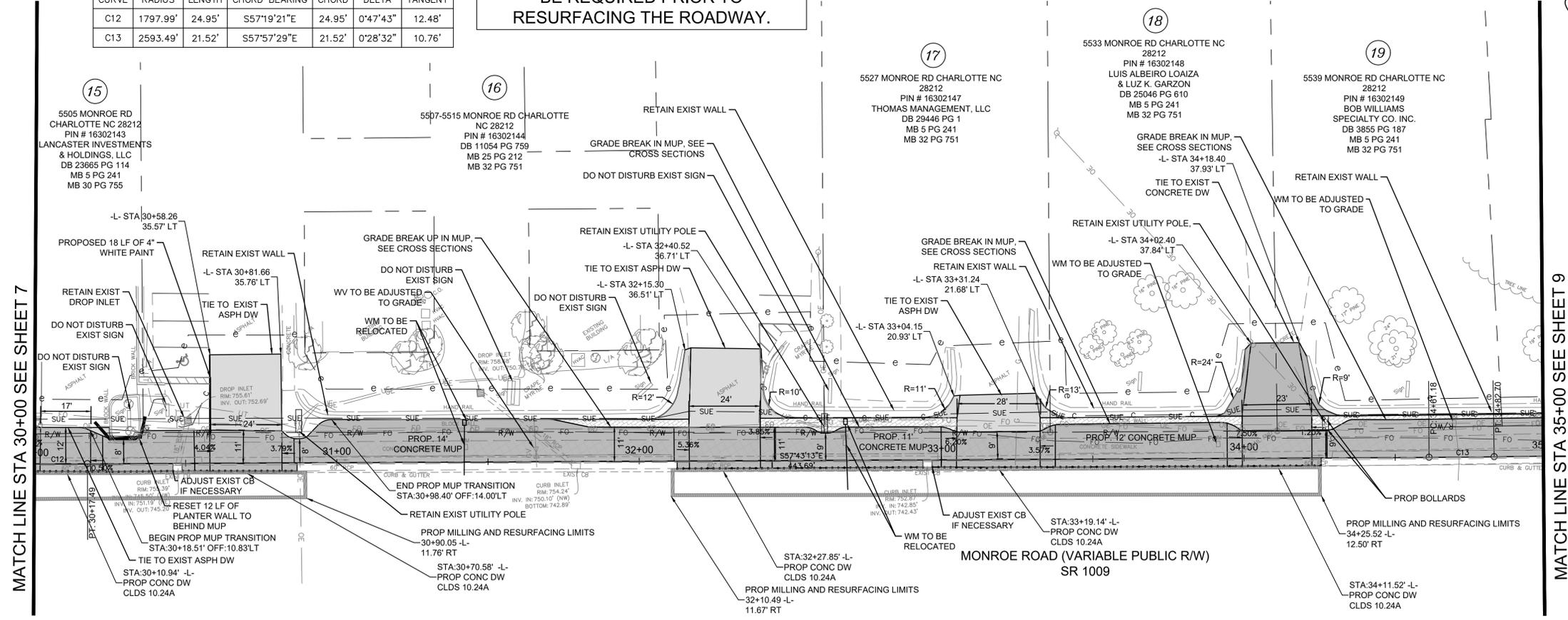
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CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C12	1797.99'	24.95'	S57°19'21"E	24.95'	0°47'43"	12.48'
C13	2593.49'	21.52'	S57°57'29"E	21.52'	0°28'32"	10.76'

NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



MATCH LINE STA 35+00 SEE SHEET 9

MATCH LINE STA 30+00 SEE SHEET 7



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1" = 20'
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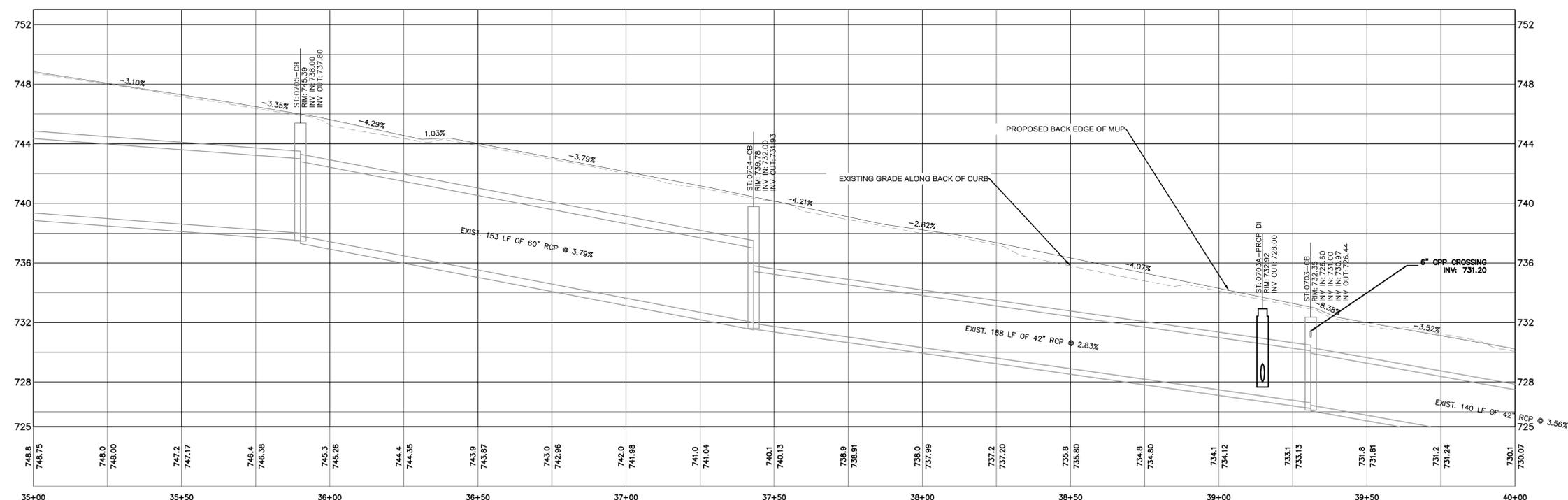
MONROE ROAD MULTI-USE PATH
PLAN AND PROFILE STA. 30+00 TO 35+00

SHEET **8** OF **9**



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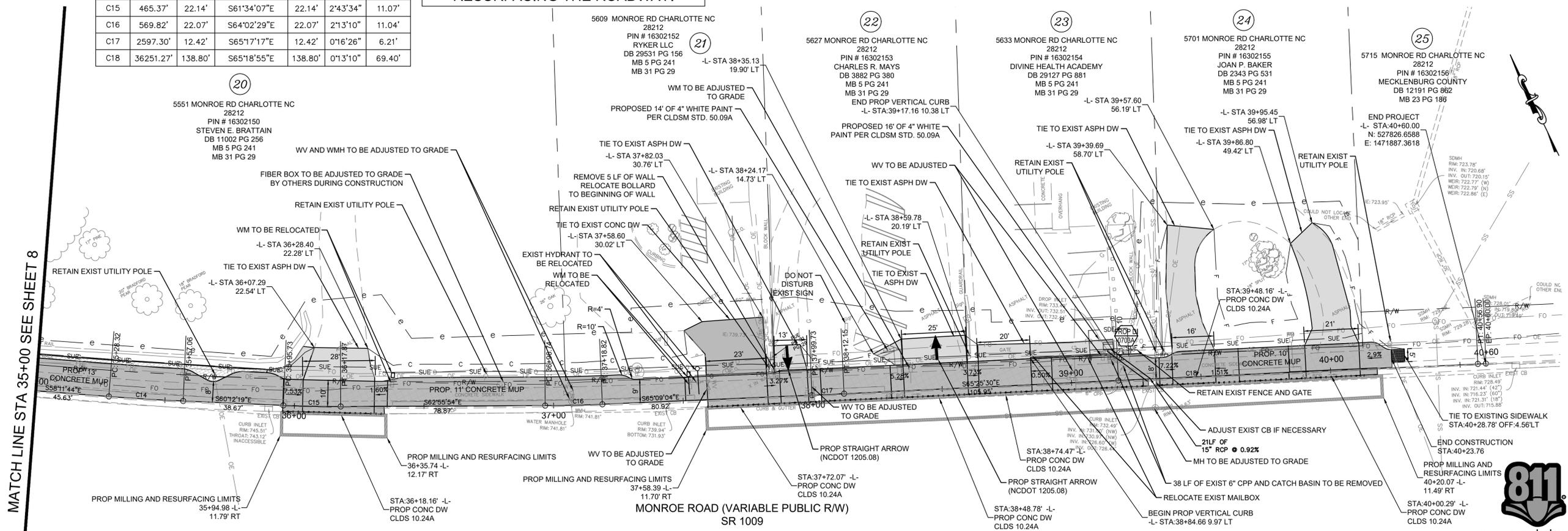
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CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C14	819.32'	28.74'	S59°12'02"E	28.74'	2°00'35"	14.37'
C15	465.37'	22.14'	S61°34'07"E	22.14'	2°43'34"	11.07'
C16	569.82'	22.07'	S64°02'29"E	22.07'	2°13'10"	11.04'
C17	2597.30'	12.42'	S65°17'17"E	12.42'	0°16'26"	6.21'
C18	36251.27'	138.80'	S65°18'55"E	138.80'	0°13'10"	69.40'

NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.

-L- PROFILE
 HORIZ SCALE: 1"=20'
 VERT SCALE: 1"=4'



MATCH LINE STA 35+00 SEE SHEET 8



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**MONROE ROAD
MULTI-USE PATH**

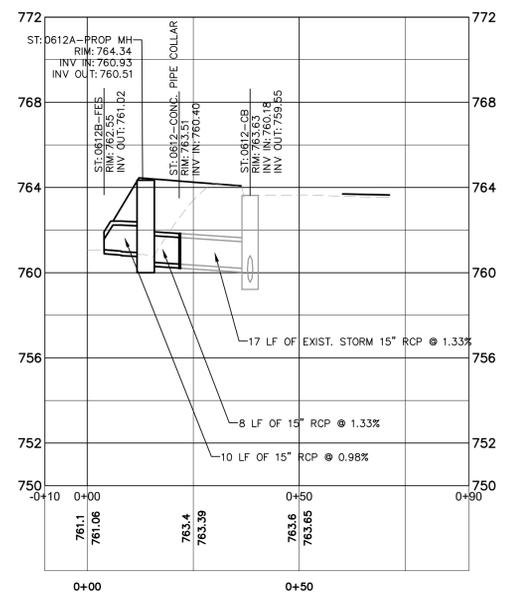
**PLAN AND PROFILE STA.
35+00 TO 40+00**



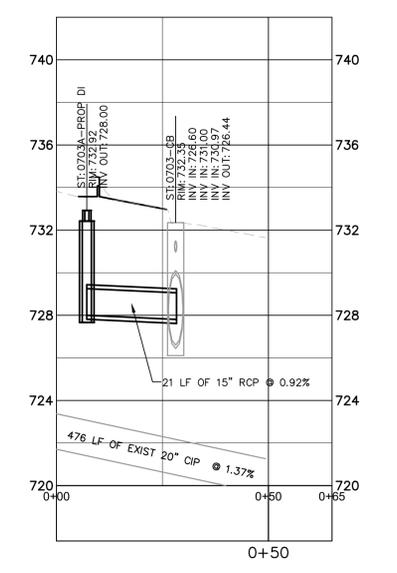
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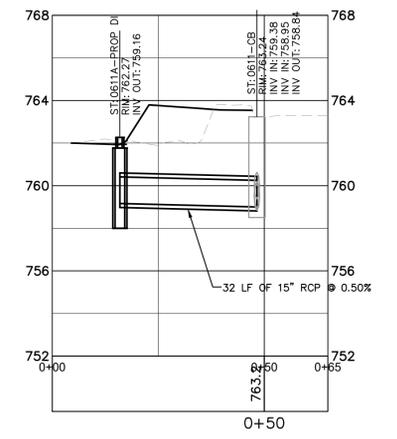
PROFILE VIEW: STR 0612
SCALE: 1"=20' HORIZ. / 1"=4' VERT.
STATION RANGE: 0+64.05 DATUM: 750.00



PROFILE VIEW: STR 0703
SCALE: 1"=20' HORIZ. / 1"=4' VERT.
STATION RANGE: 0+49.26 DATUM: 720.00



PROFILE VIEW: STR 0611
SCALE: 1"=20' HORIZ. / 1"=4' VERT.
STATION RANGE: 0+66.05 DATUM: 752.00



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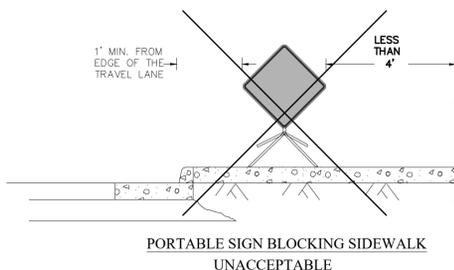
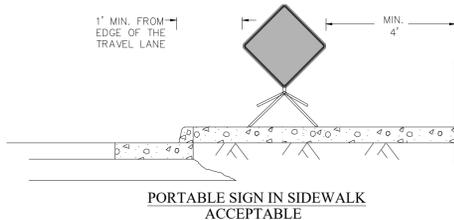
SHEET	MONROE ROAD MULTI-USE PATH	
	10	OF 10
OF	STORM PIPE PROFILES	
10		

GENERAL NOTES

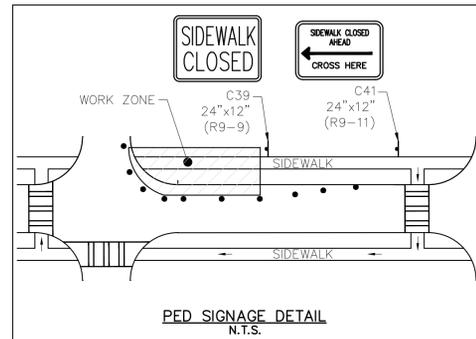
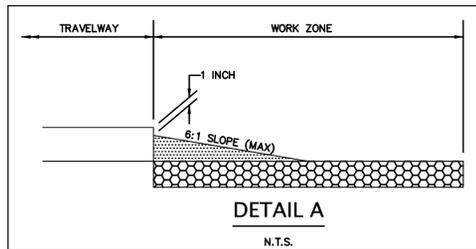
- A) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITIONS OF THE CHARLOTTE DEPT. OF TRANSPORTATION(CDOT) WORK AREA TRAFFIC CONTROL HANDBOOK(W.A.T.C.H.), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(M.U.T.C.D.), THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION(NCDOT) SUPPLEMENT TO THE M.U.T.C.D., THE NCDOT ROADWAY STANDARD DRAWINGS AND THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- B) THE CONTRACTOR IS TO NOTIFY CDOT IN WRITING 10 WORKING DAYS IN ADVANCE OF ANY ROAD CLOSURE OR 5 WORKING DAYS PRIOR TO CLOSING ONE OR MORE TRAVEL LANES IN ACCORDANCE WITH SECTION 3 OF THE W.A.T.C.H. HANDBOOK.
- C) ALL SIGNAL REVISIONS OR SHIFTS OF SIGNAL HEADS WILL BE THE RESPONSIBILITY OF CDOT. PRIOR TO REVISIONS TRAFFIC LANES WHICH REQUIRE SIGNAL REVISIONS, THE CONTRACTOR SHALL NOTIFY THE CDOT IMPLEMENTATION SECTION MANAGER A MINIMUM OF 30 CALENDAR DAYS IN ADVANCE. TRAFFIC LANES SHALL NOT BE SHIFTED UNTIL THE REQUIRED SIGNAL REVISION / SHIFT IS COMPLETE AND READY FOR ACTIVATION. FOR NOTICES RELATED TO SIGNAL WORK REQUIRING NEW UTILITIES, REFER TO PROJECT NOTES.
- D) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL, RELOCATE, AND MAINTAIN ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES FOR WORK SITES AND DETOUR ROUTES AS SHOWN IN TRAFFIC CONTROL PLANS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- E) CONSTRUCTION PHASING MAY DICTATE THAT TWO OR MORE TYPICAL W.A.T.C.H. DIAGRAMS OR STANDARDS BE USED IN ONE AREA OF CONSTRUCTION. CHANNELIZING DEVICES ASSOCIATED WITH THESE TYPICALS SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS NECESSARY TO COMPLY WITH THE CONSTRUCTION PHASING OF THE PLANS. THE LOCATION AND POSITIONING OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER TO ENSURE THAT THE MOTORIST DOES NOT RECEIVE FALSE INFORMATION WHEN TWO OR MORE TYPICALS AND/OR ROADWAY STANDARD DRAWINGS OVERLAP.
- F) CONTRACTOR SHOULD BE AWARE THAT WHEN THE CONSTRUCTION AREA IS IN OR NEAR A VERTICAL CURVE OR HORIZONTAL CURVE, THE WORK AREA SHALL BE EXTENDED SO THAT LANE CLOSURE BEGINS IN ADVANCE OF THE CURVE AND MINIMUM STOPPING SIGHT DISTANCE IS MET.
- G) OFF-DUTY POLICE OFFICERS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO BE PRESENT FOR CONTROLLING TRAFFIC DURING CONSTRUCTION HOURS.
- H) THE CONTRACTOR SHALL MARK ALL HAZARDS WITHIN THE LIMITS OF THE PROJECT WITH WELL-MAINTAINED SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES. ON CONNECTING ROADS, ALL BARRICADES, SIGNS, WARNING, AND/OR CHANNELIZING DEVICES SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS REQUIRED DURING THE PROGRESS OF CONSTRUCTION AS APPROVED BY THE ENGINEER.
- I) WORK ON THE PROJECT OR ANY SEPARATE ACTIVITY THEREIN SHALL NOT START UNTIL ALL OF THE REQUIRED SIGNS, BARRICADES, WARNING, AND/OR CHANNELIZING DEVICES ARE INSTALLED AND APPROVED BY THE ENGINEER.
- J) THE CONTRACTOR SHALL CONTACT IMPLEMENTATION SECTION MANAGER WITH THE CITY OF CHARLOTTE DEPARTMENT OF TRANSPORTATION (CDOT) TWO WEEKS PRIOR TO BEGINNING ANY WORK THAT WILL REQUIRE THE RELOCATION OR PLACEMENT OF SIGNS OR OTHER TRAFFIC CONTROL DEVICES BY THE CITY.
- K. THE CONTRACTOR MUST MAINTAIN DURING ALL PERIODS OF CONSTRUCTION ACTIVITY THE ABILITY TO FLAG TRAFFIC USING QUALIFIED FLAGGERS WHEN NECESSARY OR REQUIRED
- L. THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS AND ADDRESS CONFLICTING PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 17 OF THE W.A.T.C.H. HANDBOOK OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ANY EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- M) THE CONTRACTOR SHALL MAINTAIN TWO WAY TRAFFIC ON ALL PORTIONS OF THIS PROJECT UNLESS OTHERWISE SPECIFIED IN THE PLANS, PROJECT NOTES, OR BY THE ENGINEER.
- N) CONTRACTOR WILL BE REQUIRED TO PROVIDE PROPERTY OWNERS AND TENANTS ACCESS TO THEIR PROPERTY THROUGHOUT THE PROJECT LIMITS, INCLUDING REASONABLE INGRESS AND EGRESS FOR BUSINESSES. SPECIAL ATTENTION SHALL BE PAID TO FIRE HYDRANTS.
- O) THE CONTRACTOR IS TO NOTIFY (BY MAIL) ALL PROPERTY OWNERS AND OCCUPANTS WHO HAVE DIRECT ACCESS TO THE ROADWAY WITHIN THE PROJECT LIMITS A MINIMUM OF 5 AND A MAXIMUM OF 10 WORKING DAYS PRIOR TO INSTALLING TRAFFIC CONTROL DEVICES IN FRONT OF THOSE PROPERTIES. NOTIFICATIONS SHOULD INCLUDE CONTACT PERSONS NAME, TELEPHONE NUMBER, EMAIL ADDRESS, AND MAILING ADDRESS.
- P) THE CONTRACTOR SHALL PATROL THE WORK SITE AT THE BEGINNING AND END OF EACH WORK DAY (AT A MINIMUM) TO ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING PROPERLY. CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING AT ALL TIMES DURING PERIODS OF CONSTRUCTION INACTIVITY.
- Q) DURING PERIODS OF INACTIVITY OR AT NIGHT, EQUIPMENT SHALL NOT BE PARKED IN SUCH A MANNER AS TO BLOCK SIDEWALKS, TRAFFIC CONTROL DEVICES, OR THE MOTORISTS' VIEW OF TRAFFIC. EQUIPMENT SHALL BE AT LEAST 10 FEET AWAY FROM THE TRAVEL LANE.
- R) WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION ACTIVITY, THE TWO OPPOSING DIRECTIONS MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE USED FOR THIS PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED CONES OR DRUMS MUST BE USED AT NIGHT. TRAFFIC SHALL NOT BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION INACTIVITY UNLESS PAVEMENT MARKING CONFLICTS ARE APPROPRIATELY ADDRESSED AND AGREEMENT ON REMOVAL OR NOT IS WORKED OUT WITH THE ENGINEER IN ACCORDANCE WITH SECTION 16 OF THE W.A.T.C.H. HANDBOOK. IF THE ENGINEER APPROVES TRAFFIC TO CROSS THE CENTER LINE DURING CONSTRUCTION INACTIVITY, ONLY REFLECTORIZED DRUMS MUST BE USED.
- S) THE CITY ENGINEER OR NCDOT ENGINEER OR DIRECTOR OF THE CHARLOTTE DEPARTMENT OF TRANSPORTATION OR THEIR APPOINTED REPRESENTATIVES ARE AUTHORIZED TO STOP ANY WORK WITHIN PUBLIC RIGHT OF WAY THAT DOES NOT FOLLOW THIS TRAFFIC CONTROL PLAN OR REQUIREMENTS OF THE W.A.T.C.H. AND THE M.U.T.C.D. UNTIL SUCH REQUIREMENTS ARE MET.
- T) ADJACENT LANES TO CONSTRUCTION ZONES MAY REMAIN OPEN IF LATERAL CLEARANCE BETWEEN EDGE OF TRAVEL LANE AND EQUIPMENT IS EQUAL TO OR GREATER THAN 2 FEET ALONG CITY STREETS (ORR RD) AND 5 FEET ALONG STATE MAINTAINED STREETS (N TRYON ST) (INCLUDING WIDTH OF DRUM). IF A DROPOFF EXISTS WITHIN THE WORK ZONE, CONTRACTOR SHOULD FOLLOW SECTION 10 OF THE W.A.T.C.H. HANDBOOK PERTAINING TO ADJACENT LANE CLOSURES DUE TO DROPOFFS.
- U) THE CONTRACTOR SHALL FOLLOW THE PHASING AS DESCRIBED HEREIN. THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH CONSTRUCTION PHASE IN SEQUENCE. WHEN A CONSTRUCTION PHASE IS DIVIDED INTO STEPS, THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH STEP IN SEQUENCE. (EXAMPLE: THE REQUIREMENTS OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO PHASE II; THE REQUIREMENTS OF STEP 1 OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO STEP 2 OF PHASE I). ALL WORK DESCRIBED IN THE PROJECT PHASING SHALL BE PERFORMED BY THE CONTRACTOR, EXCEPT WHERE IT IS SPECIFIED FOR CERTAIN WORK TO BE PERFORMED BY OTHERS.
- V) THE CONTRACTOR SHALL NOT BE ALLOWED TO STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME IN ANY ONE DIRECTION.
- W) CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON BOTH SIDES OF THE ROAD SIMULTANEOUSLY WITHIN THE SAME AREA EXCEPT WHERE THE ROADWAY IS DIVIDED BY A RAISED MEDIAN. IT WILL BE ACCEPTABLE TO CONSTRUCT BORE PITS ON EACH SIDE OF A ROADWAY FOR BORING UTILITIES UNDER THE ROADWAY UNLESS SUPERCEDED BY ENGINEER TO COMPLY WITH PEDESTRIAN REQUIREMENTS OR LATERAL CLEARANCE FROM TRAVEL LANES.
- X) THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO SECTION VII (PEDESTRIAN CONSIDERATIONS) OF THE W.A.T.C.H.

PROJECT NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FINAL PAVEMENT MARKINGS. CDOT SHALL PROVIDE AND INSTALL ALL FINAL SIGNAGE.
- 2. DURING THE HOURS OF 6:00 AM-9:00 AM AND 4:00 PM-6:00 PM MONDAY THRU FRIDAY (OR AS DIRECTED BY NCDOT) CONSTRUCTION OR MAINTENANCE WORK WHICH INVOLVES CLOSURE OF A TRAVEL LANE WILL NOT BE ALLOWED ON THROUGHFARE STREETS EXCEPT FOR EMERGENCY SITUATIONS OR WITH APPROVAL FROM CDOT OR NCDOT.
- 3. CONTRACTOR SHALL SUPPLY AND INSTALL ALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

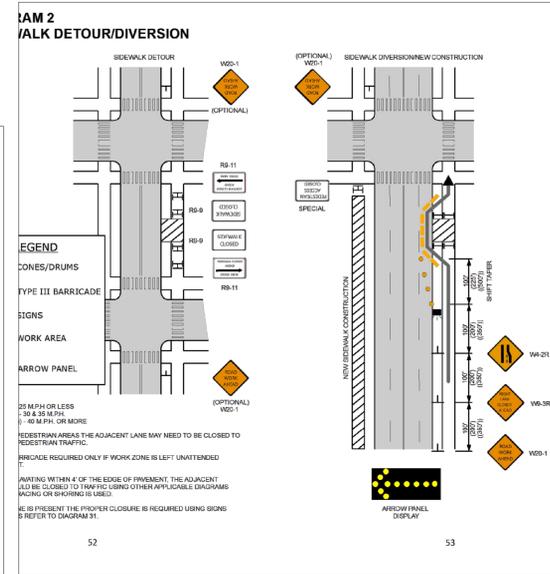
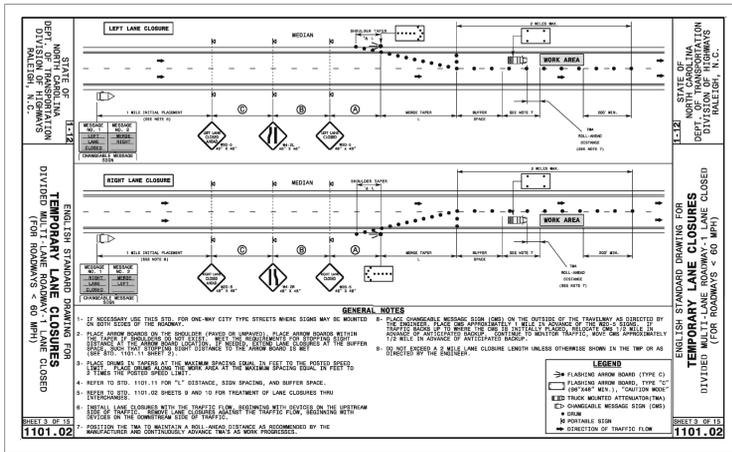


ALTERNATIVE OPTION IS TO PLACE SIGN BEHIND SIDEWALK WHEN POSSIBLE, OTHERWISE, MAY NEED TO POST MOUNT SIGN WITH 7' MINIMUM VERTICAL CLEARANCE FROM SIDEWALK SURFACE



CONSTRUCTION PHASING

- NOTES:
- PEDESTRIAN DETOUR TO OCCUR AT CLOSEST DOWNSTREAM/UPSTREAM SIGNALIZED INTERSECTION.
 - ALL PEDESTRIAN DETOURS MUST BE ADA COMPLIANT.
 - CONTRACTOR IS TO ADJUST VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL AS THEY MOVE DOWN MONROE RD.
 - ONLY ONE LANE OF THE SIDE ROADS LISTED BELOW WILL BE CLOSED AT A TIME DURING CONSTRUCTION. CONSTRUCTION ON ONLY ONE SIDE OF THE ROAD WILL BE ALLOWED AT A TIME.
 - EATON RD
LANIER AVE
MANDARIN BLVD
 - PHASE I:
 - STEP 1: THE CONTRACTOR SHALL PLACE ALL CONSTRUCTION WARNING SIGNS AND MESSAGE BOARD TWO WEEKS PRIOR TO THE BEGINNING OF WORK. THE APPROACH WARNING SIGNS AND MESSAGE BOARD SHALL BE PLACED ON MONROE RD. (SR 1008) AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED USING NCDOT STD. DWG 1101.01, SHEET 3.
 - STEP 2: THE CONTRACTOR SHALL UTILIZE NCDOT STANDARD DRAWING 1101.02 TO CONSTRUCT THE SIDEWALK ALONG MONROE ROAD -L1- STA. 10+00 TO STA. 24+00. THE CONTRACTOR SHALL UTILIZE LANE CLOSURES WHERE APPROPRIATE AND WHERE THE SIDEWALK IS ADJACENT TO THE LANE.
 - PHASE II:
 - STEP 1: USING THE NCDOT ROADWAY STANDARD DRAWING 1101.02 SHEET 1, THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK ALONG MONROE ROAD -L1- STA. 24+00 TO STA. 44+30. THE CONTRACTOR SHALL UTILIZE LANE CLOSURES WHERE APPROPRIATE AND WHERE THE SIDEWALK IS ADJACENT TO THE LANE.
 - PHASE III:
 - STEP 1: USING THE NCDOT ROADWAY STANDARD DRAWING 1102.01 SHEET 2, THE CONTRACTOR SHALL COMPLETE ALL THE MILLING, INLAY, AND FINAL PAVEMENT MARKING ALONG MONROE RD.
 - STEP 2: PLACE TRAFFIC INTO THE FINAL PATTERN AND REMOVE ALL ADVANCE WARNING SIGNS.



Plotted By: Rowlands, Donny Sheet: Sect-Monroe Road MUP Layout: Layout1 October 25, 2024 11:01:27am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_SAD\PlanSheets\070-Traffic Control.dwg



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NO.	DATE	BY	DESCRIPTION



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PMES211694 JOB NO.	EAC PREPARED BY	10-25-2024	
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**MONROE ROAD
MULTI-USE PATH**

TRAFFIC CONTROL



Know what's below.
Call before you dig.

EROSION CONTROL

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NCEMELR EROSION AND SEDIMENT CONTROL REGULATIONS.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, U.S. DEPARTMENT OF AGRICULTURE, AND U.S. SOIL CONSERVATION SERVICE REGULATIONS.
3. ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
4. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCEMELR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
5. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
7. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NORTH CAROLINA SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
8. CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF TEMPORARY PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION.
9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 14 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
10. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SLEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
11. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
12. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
13. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

GRADING

1. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.
2. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, LANDSCAPING, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
3. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
4. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLANS FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL INSPECTION AND APPROVAL.
5. IN ORDER TO ENSURE PROPER DRAINAGE, MAINTAIN A MINIMUM 0.50% SLOPE ON THE CURB.
6. ALL MATERIALS USED FOR FILL OR BACK-FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS OR ANY OTHER NON-COMPACTIBLE TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS REFUSE DEBRIS DERIVED FROM ANY SOURCE.
7. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES. REFER TO THE PAVEMENT CROSS-SECTION DETAILS TO ESTABLISH THE CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS.
8. ALL CONTOURS ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO GROUND BREAKING.
9. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
10. THE LIMITS OF CLEARING SHOWN ON THE GRADING AND EROSION CONTROL PLAN IS BASED ON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
11. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
12. COORDINATE ALL CURB AND STREET GRADES AT INTERSECTIONS WITH THE CITY OF CHARLOTTE INSPECTORS.
13. ALL DEBRIS FROM CLEARING OPERATIONS SHALL BE DISPOSED OF IN A LEGAL MANNER.
14. HAUL ROADS USED DURING CONSTRUCTION SHALL BE OUTSIDE THE STREAM TOP OF BANK TO THE EXTENT POSSIBLE. HAUL ROADS SHALL FOLLOW THE NATURAL CONTOURS OF THE TERRAIN IF POSSIBLE. A 6" COURSE OF #5 STONE SHALL BE SPREAD OVER HAUL ROADS IN AREAS THAT ARE SUBJECT TO WET CONDITIONS. PROVIDE SUBSURFACE DRAINS IN SEEPAGE AREAS OR SEASONALLY WET AREAS.

GROUND STABILIZATION

- 1) SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
 - i) ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND AU SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ii) ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- 2) CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
 - i) EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
 - ii) ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY-REQUIREMENT APPLIES.
 - iii) ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.
 - iv) SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.
 - v) ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.
 - vi) FOR PORTIONS OF PROJECTS WITHIN THE SEDIMENT CONTROL COMMISSION-DEFINED "HIGH QUALITY WATER ZONE" (ISA NCAC 04A. 0105) , STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACT.
 - vii) PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IF IDENTIFIED ON THE APPROVED E&SC PLAN OR ADDED BY THE PERMITTING AUTHORITY.

SEDIMENT AND EROSION CONTROL PROCEDURES

1. PRIOR TO CLEARING AND EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES SPECIFIED AND AS INDICATED ON THE DRAWINGS. DURING EACH PHASE OF SITE CONSTRUCTION THE CONTRACTOR SHALL ADJUST, RELOCATE, AND/OR REINSTALL AS APPLICABLE ALL EROSION CONTROL DEVICES AND SEDIMENT DISCHARGE FROM THE SITE.
2. SILT FENCE AND TREE PROTECTION FENCE SHALL BE MAINTAINED AROUND THE PERIMETER OF ALL EARTHWORK AREAS TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES, AS APPLICABLE.
3. SILT FENCE FILTER BARRIERS SHALL BE INSTALLED AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND LANDSCAPING IS INSTALLED.
4. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP AND REPAIR ALL EROSION DAMAGE AFTER DISCOVERY AND REINSTALL ADEQUATE CONTROL MEASURES AS NECESSARY TO PREVENT REOCCURRENCE OF DAMAGE.
5. ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24 HOUR PERIOD. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.
7. CONSTRUCTION POINT OF ACCESS TO LIMIT DEPOSITS OF EARTH AND OTHER HAULLED MATERIALS ONTO THE ADJACENT LOT. THE CONTRACTOR SHALL ROUTINELY CLEAN ALL SEDIMENT DEPOSITS AND DEBRIS FROM ROADWAY AS THEY OCCUR.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. MAINTAIN EROSION CONTROL DEVICES AS FOLLOW:
 - TEMPORARY SILT FENCE - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID UNDERMINING THE FENCE.
 - TEMPORARY CHECK DAM - REMOVE SEDIMENT ACCUMULATION BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ADD STONE TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
 - STORM DRAIN INLET PROTECTION - REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL.
 - TEMPORARY DIVERSION DITCH - INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND.
3. ALL GRADED AREAS WILL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE, VEGETATIVE COVER WITHIN FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF GRADING. IF WORK ON THE PROJECT CEASES FOR MORE THAN THE AFOREMENTIONED LENGTH OF TIME, ALL DISTURBED AREAS SHALL HAVE TEMPORARY VEGETATIVE GROUND COVER ESTABLISHED AND EROSION CONTROL DEVICES MAINTAINED.

SEEDING SCHEDULE AND SEEDBED PREPARATION

- SEEDING SCHEDULE**
1. SEED, MULCH, AND FERTILIZE AREAS ACCORDING TO THE CITY OF CHARLOTTE LAND DEVELOPMENT STANDARD 30.17B (SEE SHEET EC-2).
 2. PROTECTIVE COVER MUST BE ESTABLISHED ON ALL DISTURBED AREAS, GRADED SLOPES, AND FILLS WITHIN 14 CALENDAR DAYS AFTER LAND DISTURBING ACTIVITY IS COMPLETED OR HAS TEMPORARILY CEASED.
- SEEDBED PREPARATION**
1. GRADED SLOPES AND FILL - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL, WITHIN 14 WORKING DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
 2. GROUND COVER - WHENEVER LAND DISTURBING ACTIVITY IS UNDERTAKEN ON A TRACT COMPRISING MORE THAN ONE ACRE, IF MORE THAN ONE CONTIGUOUS ACRE IS UNCOVERED, A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 14 WORKING DAYS ON THAT PORTION OF THE TRACT UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN.
 3. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO THE PLANS.
 4. AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 8" DEEP.
 5. LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION, AT FINISH GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
 6. IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME SHALL BE ACCORDING TO SEEDING SPECIFICATIONS.
 7. IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO THE SOIL TEST REPORT.
 8. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.

ACREAGE SUMMARY

1. PROJECT DISTURBED AREA 1.91 ACRES

STORM DRAINAGE NOTES

1. ALL STORM DRAINAGE PIPE WITHIN PUBLIC ROAD RIGHT-OF-WAYS TO BE CLASS III REINFORCED CONCRETE PIPE PER NCDOT STANDARDS, UNLESS OTHERWISE NOTED.
2. FLARED END SECTION INVERTS ARE SET AT OR SLIGHTLY BELOW EXISTING GRADE. VERIFY ELEVATIONS IN FIELD PRIOR TO CONSTRUCTING PIPE SYSTEMS.
3. A MINIMUM GRADE OF 0.50% SHALL BE MAINTAINED ON ALL PIPES.
4. PIPE LENGTHS INDICATED ON PLANS ARE APPROXIMATE ONLY.
5. ALL INLETS MUST BE PROTECTED AT THE CLOSE OF BUSINESS EACH DAY.
6. NO PIPES ARE TO BE INSTALLED AND LEFT OPEN OVER NIGHT. ALL PIPE WORK MUST BE CLOSED AND PROTECTED AT THE CLOSE OF BUSINESS EACH DAY.
7. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
8. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
9. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
10. EFFLUENT FROM DENATURING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
11. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
12. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS.
13. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN EROSION AND SEDIMENTATION PERMIT FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES FOR ANY NEW OFF-SITE BORROW AREA. THE CONTRACTOR MAY USE AN EXISTING BORROW AREA PROVIDED THAT IT IS CURRENTLY PERMITTED UNDER THE SEDIMENTATION POLLUTION CONTROL ACT OR THE MINING ACT.

GENERAL EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK OR AFTER EACH RAINFALL EVENT, AND REPAIR IF NECESSARY, TO ENSURE THAT ALL EROSION CONTROL MEASURES ARE FUNCTIONING PROPERLY.
2. STABILIZATION OF DISTURBED AREAS SHALL PROGRESS WITH PIPE INSTALLATION. AT NO TIME SHALL PIPE INSTALLATION PROGRESS MORE THAN 500 FEET AHEAD OF FINE GRADING, SEEDING, AND MULCHING OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN STORM DRAINAGE DURING PIPE INSTALLATION.
4. DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE GRADED DAILY TO PREVENT PONDING OF STORM WATER RUNOFF AND UNNECESSARY SOIL EROSION.
5. THE ROADWAY CUT SHALL BE BACKFILLED AND STABILIZED AT THE END OF EACH WORK DAY WITH STONE MATERIAL, AND GRADED TO MATCH NORMAL GUTTER LINE ELEVATIONS AND SLOPES SO THAT NORMAL DRAINAGE WILL BE PROVIDED.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATION AND PROTECTION OF EXISTING ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL MANS OR INDIVIDUAL SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
7. SECURE EXISTING SANITARY SEWER DURING TRENCHING AND BACKFILLING OPERATION.
8. SEEDING AND MULCHING IS REQUIRED FOR ALL DISTURBED AREAS.
9. THE CONTRACTOR SHALL NOTIFY CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT AND PIEDMONT NATURAL GAS COMPANY, INC. PRIOR TO EXCAVATING AT OR NEAR SEWER MAINS, WATER MAINS, AND GAS MAINS.
10. WHEN EXISTING FENCES ARE MOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL SECURE PETS WITH TEMPORARY FENCING UNTIL PERMANENT FENCING IS RESET.
11. THE CONTRACTOR IS TO MAINTAIN CONTINUOUS SANITARY SEWER FLOW AT ALL EXISTING SANITARY SEWERS.
12. THE CONTRACTOR IS TO MAINTAIN CONTINUOUS WATER SERVICE TO ALL RESIDENCES.
13. ANY STOCKPILING OF SOIL ON PAVED SURFACE SHALL HAVE SAND AND OR ROCK SCREENING UNDERNEATH AREA.
14. CONTRACTOR IS RESPONSIBLE FOR AMENDMENTS TO PLAN FOR ADDITIONAL AREAS FOR STAGING PURPOSE. SUCH AREAS WILL BE STABILIZED.
15. THE CONTRACTOR SHALL NOT BEGIN WORK THAT CANNOT BE STABILIZED BY THE END OF THE WORK DAY AND SHALL NOT LEAVE ANY STORM DRAINAGE PIPES OPEN OVERNIGHT. PIPES MUST BE CLOSED AND PROTECTED BY THE END OF THE WORK DAY.
16. ALL EARTH MOVING EQUIPMENT SHALL BE SERVICED PRIOR TO WORK COMMENCING EACH DAY. EQUIPMENT SHALL BE MAINTAINED TO PREVENT FUEL, OIL, AND LUBRICANT SPILLS IN THE VICINITY OF A STREAM.
17. PERMANENT VEGETATION SHALL BE INSTALLED IN CONJUNCTION WITH TEMPORARY SEEDING IF CONSTRUCTION OCCURS DURING THE SPECIFIED SEASON IN THE VEGETATION PLANS AND SPECIFICATIONS. IF NOT, PERMANENT VEGETATION SHALL BE PLANTED DURING THE SPECIFIED SEASON.
18. CONTRACTOR IS TO USE NO. 57 STONE WHERE STONE IS REFERENCED FOR ALL SEDIMENTATION AND EROSION CONTROL DETAILS.
19. ADDITIONAL EROSION CONTROL MEASURES AND CONSTRUCTION ENTRANCES/EXITS MAY BE REQUIRED BASED ON FIELD CONDITIONS.
20. INLET PROTECTION IS REQUIRED FOR ALL PHASES OF THE PROJECT AND UNTIL THE DISTURBED AREA IS FULLY STABILIZED.

CONSTRUCTION SEQUENCE

- THE FOLLOWING CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS. ADDITIONS, DELETIONS, AND MODIFICATIONS SHOULD BE MADE AS APPROPRIATE.
- PHASE 1:**
1. THE CONTRACTOR SHALL SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH NCEMELR EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO FINE.
 2. CONTRACTOR TO MAINTAIN ALL EXISTING EROSION CONTROL FEATURES AND INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT BASINS, DIVERSION DITCHES, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
 3. SCHEDULE AN ON-SITE INSPECTION BY NCEMELR INSPECTOR. WHEN APPROVED, CLEARING AND GRUBBING MAY BEGIN.
 4. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
 5. THE CONTRACTOR SHALL NOT BEGIN WORK THAT CANNOT BE STABILIZED BY THE END OF THE WORK DAY.
 6. ALL EARTH MOVING EQUIPMENT SHALL BE SERVICED PRIOR TO WORK COMMENCING EACH DAY. EQUIPMENT SHALL BE MAINTAINED TO PREVENT FUEL, OIL, AND LUBRICANT SPILLS IN THE VICINITY OF A STREAM.
 7. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- PHASE 2:**
1. BEGIN EARTHWORK/GRADING ACTIVITIES. BEGIN GRADING OF FILL SLOPES. MAINTAIN AND VERTICALLY ADJUST ALL ROCK CHECK DAMS, INLET PROTECTION DEVICES, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT PER TRAFFIC CONTROL PLANS.
 2. AS EARTHWORK ALLOWS, BEGIN INSTALLING STORM DRAINAGE STRUCTURES AND PROPOSED DITCHES. AS STORM DRAINAGE IS INSTALLED, CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL STORM STRUCTURES AND REMOVE INLET PROTECTION WHERE EXISTING STORM DRAINAGE IS REMOVED. NO PIPES SHALL BE LEFT EXPOSED AT THE CLOSE OF BUSINESS EACH DAY.
 3. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
 4. AS CONSTRUCTION PROGRESSES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATORS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
 5. GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 14 CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 21 CALENDAR DAYS.
 6. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE, AND THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
- PHASE 3:**
1. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS.
 2. CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

DETAILS

TEMPORARY SILT FENCE

STONE INLET PROTECTION

HANDMADE CLOTH AND STONE INLET PROTECTION



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 NC License #0102
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MONROE ROAD
MULTI-USE PATH

EROSION CONTROL
NOTES



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PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection.

Table with 3 columns: Inspect, Frequency (during normal business hours), and Inspection records must include:.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit.

Table with 2 columns: Item to Document and Documentation Requirements.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
(b) Records of inspections made during the previous twelve months.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act...
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below.

Table with 2 columns: Occurrence and Reporting Timeframes (After Discovery) and Other Requirements.

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible.

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur.
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin.
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



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Vertical sidebar containing logos for Kimley-Horn, North Carolina Professional Seal, and project details like 'MONROE ROAD MULTI-USE PATH' and 'EROSION CONTROL NOTES'.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

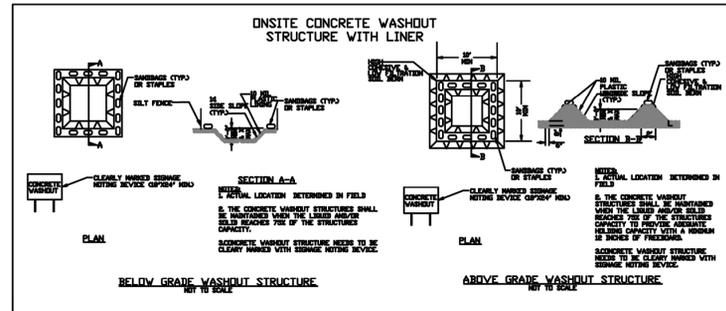
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19



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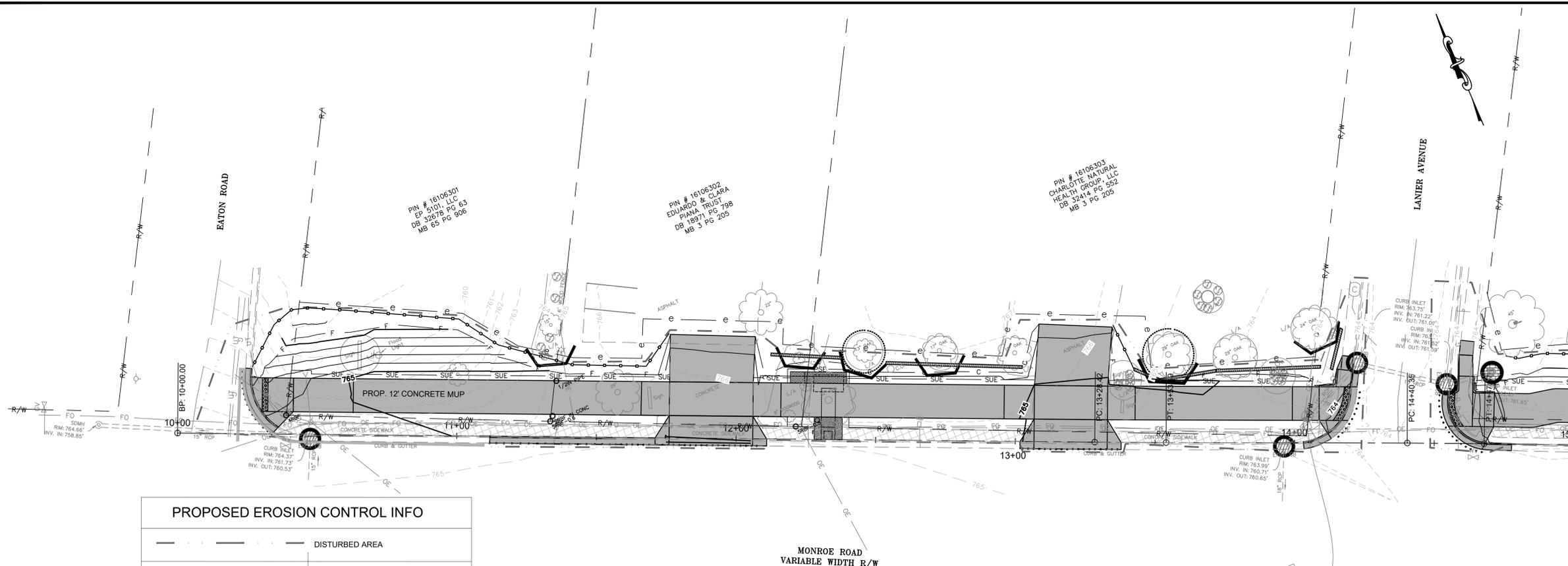
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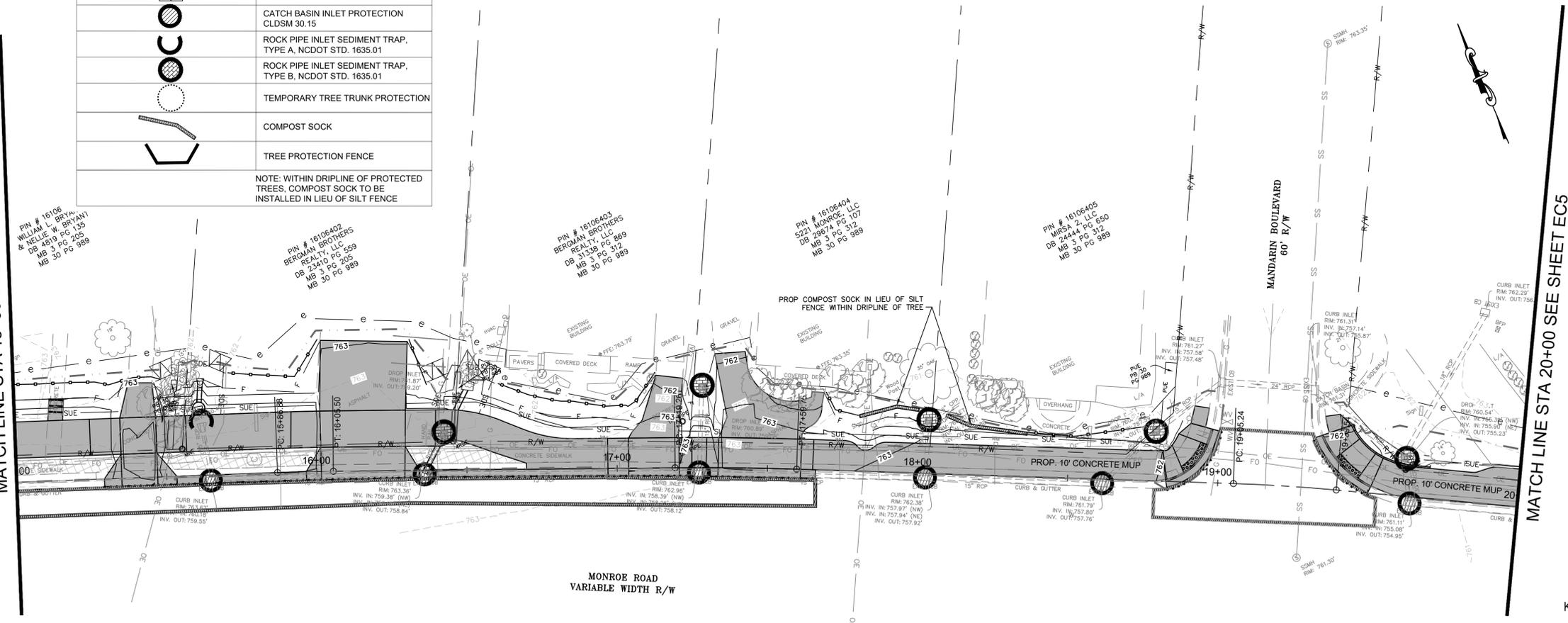
MONROE ROAD MULTI-USE PATH	EROSION CONTROL NOTES
SHEET EC3	OF EC6



PROPOSED EROSION CONTROL INFO

	DISTURBED AREA
	PROPOSED CONTOURS
	EXISTING CONTOURS
	SILT FENCE
	SPECIAL SEDIMENT CONTROL FENCE
	CATCH BASIN INLET PROTECTION CLDSM 30.15
	ROCK PIPE INLET SEDIMENT TRAP, TYPE A, NCDOT STD. 1635.01
	ROCK PIPE INLET SEDIMENT TRAP, TYPE B, NCDOT STD. 1635.01
	TEMPORARY TREE TRUNK PROTECTION
	COMPOST SOCK
	TREE PROTECTION FENCE
NOTE: WITHIN DRIPLINE OF PROTECTED TREES, COMPOST SOCK TO BE INSTALLED IN LIEU OF SILT FENCE	

MATCH LINE STA 15+00 SEE ABOVE



MATCH LINE STA 20+00 SEE SHEET EC5



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MATCH LINE STA 15+00 SEE BELOW



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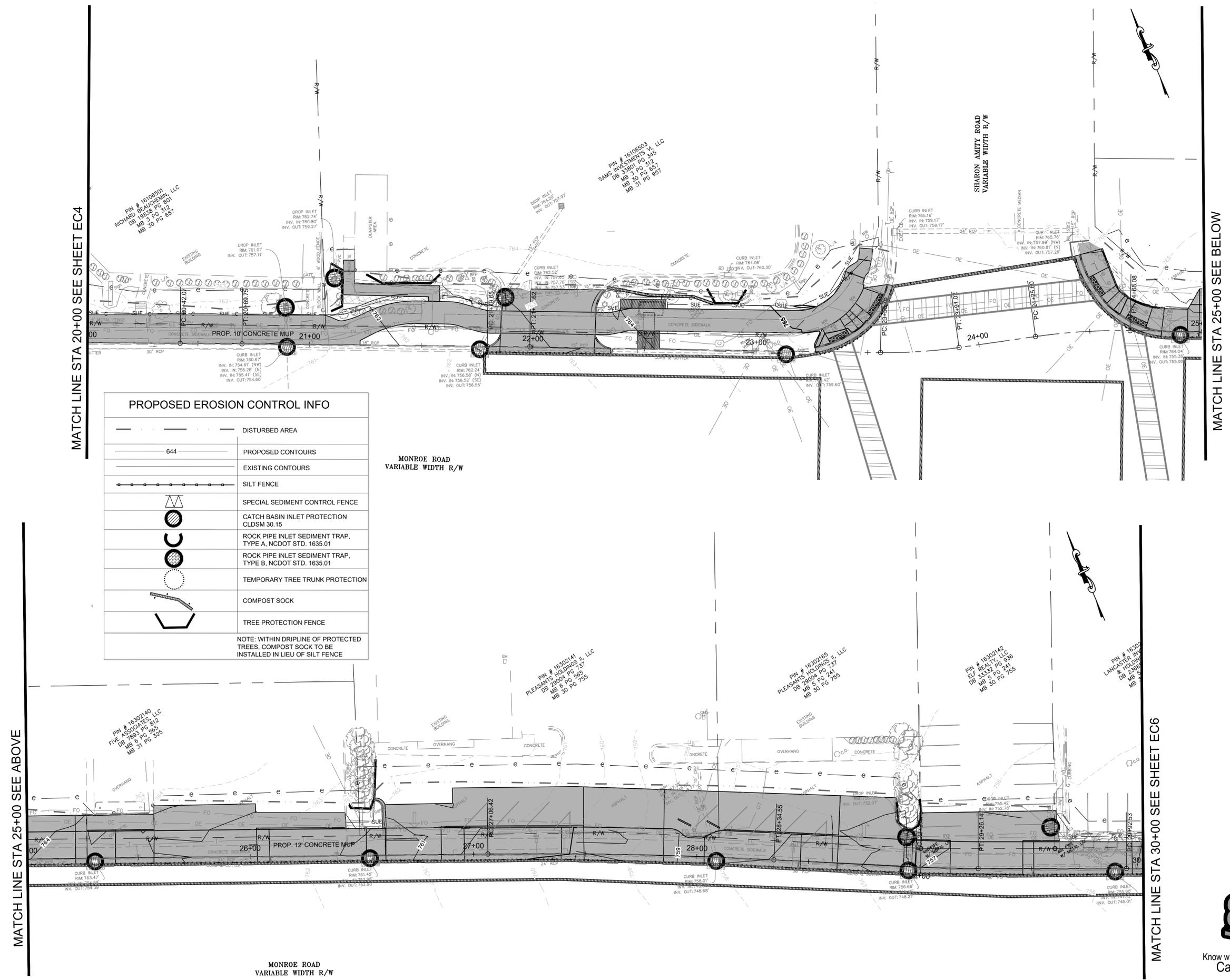
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SHEET	MONROE ROAD	EROSION CONTROL
EC4	MULTI-USE PATH	
OF		
EC6		

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MATCH LINE STA 20+00 SEE SHEET EC4

MATCH LINE STA 25+00 SEE BELOW

MATCH LINE STA 25+00 SEE ABOVE

MATCH LINE STA 30+00 SEE SHEET EC6

PROPOSED EROSION CONTROL INFO	
	DISTURBED AREA
	PROPOSED CONTOURS
	EXISTING CONTOURS
	SILT FENCE
	SPECIAL SEDIMENT CONTROL FENCE
	CATCH BASIN INLET PROTECTION CLDSM 30.15
	ROCK PIPE INLET SEDIMENT TRAP, TYPE A, NCDOT STD. 1635.01
	ROCK PIPE INLET SEDIMENT TRAP, TYPE B, NCDOT STD. 1635.01
	TEMPORARY TREE TRUNK PROTECTION
	COMPOST SOCK
	TREE PROTECTION FENCE
NOTE: WITHIN DRIPLINE OF PROTECTED TREES, COMPOST SOCK TO BE INSTALLED IN LIEU OF SILT FENCE	

MONROE ROAD
VARIABLE WIDTH R/W

MONROE ROAD
VARIABLE WIDTH R/W



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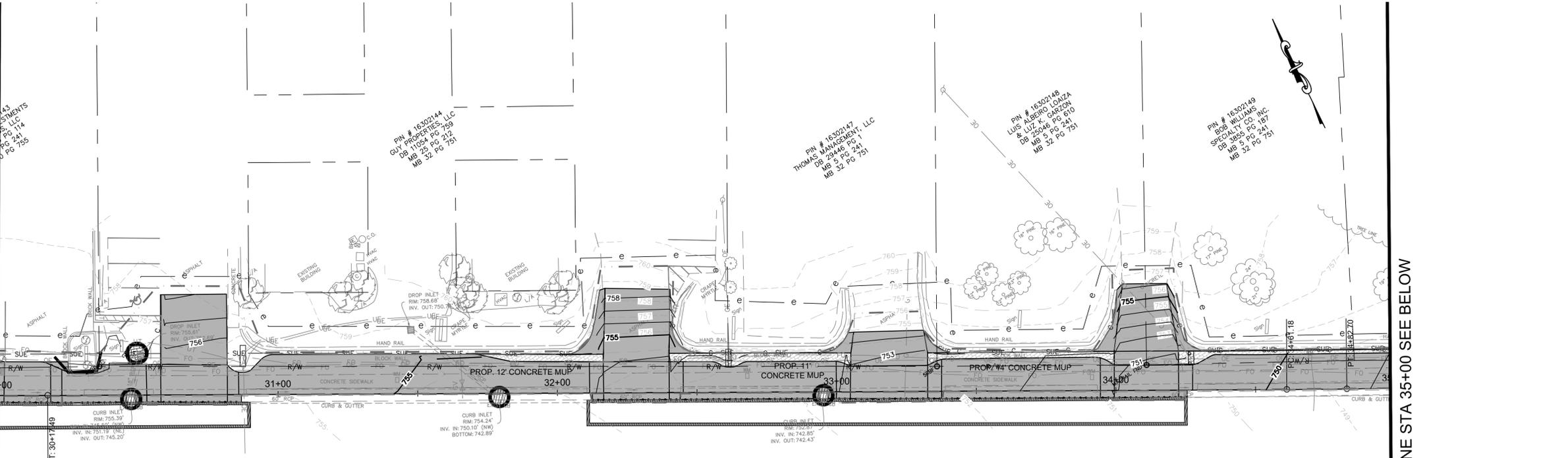
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SHEET	MONROE ROAD MULTI-USE PATH
EC5	OF
EC6	EROSION CONTROL

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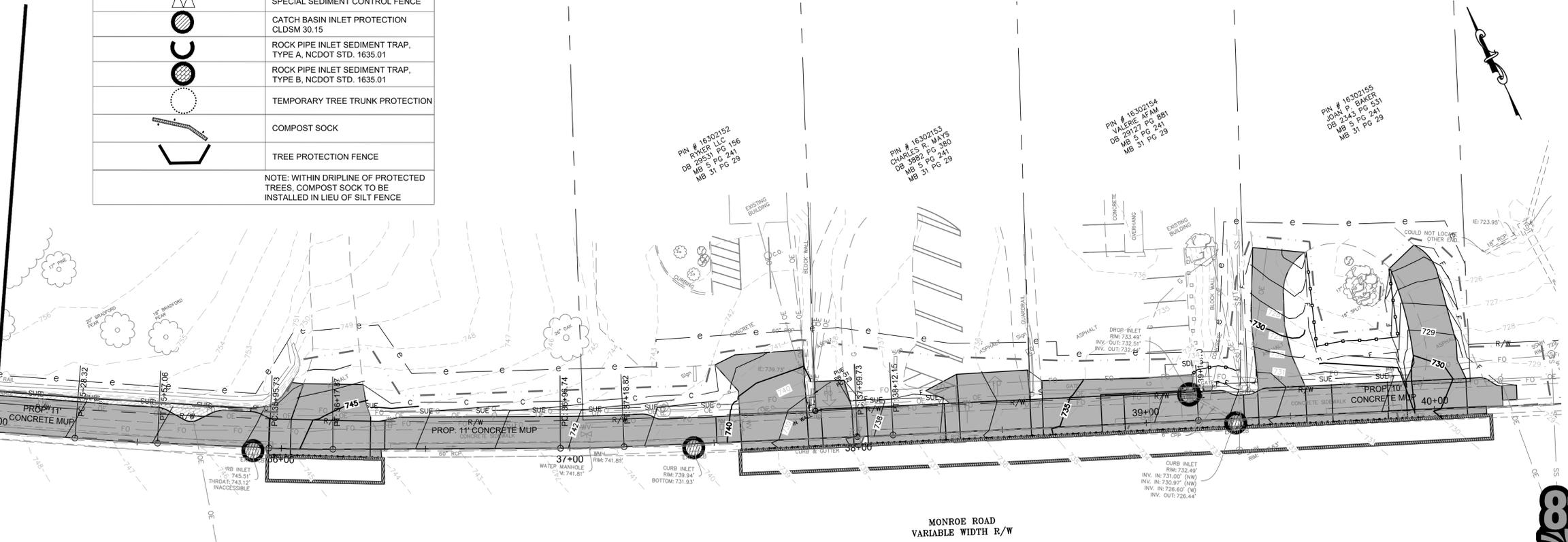
MATCH LINE STA 35+00 SEE BELOW



PROPOSED EROSION CONTROL INFO	
	DISTURBED AREA
	PROPOSED CONTOURS
	EXISTING CONTOURS
	SILT FENCE
	SPECIAL SEDIMENT CONTROL FENCE
	CATCH BASIN INLET PROTECTION CLDSM 30.15
	ROCK PIPE INLET SEDIMENT TRAP, TYPE A, NCDOT STD. 1635.01
	ROCK PIPE INLET SEDIMENT TRAP, TYPE B, NCDOT STD. 1635.01
	TEMPORARY TREE TRUNK PROTECTION
	COMPOST SOCK
	TREE PROTECTION FENCE
NOTE: WITHIN DRIPLINE OF PROTECTED TREES, COMPOST SOCK TO BE INSTALLED IN LIEU OF SILT FENCE	

MONROE ROAD
VARIABLE WIDTH R/W

MATCH LINE STA 35+00 SEE ABOVE



MONROE ROAD
VARIABLE WIDTH R/W

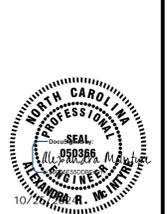


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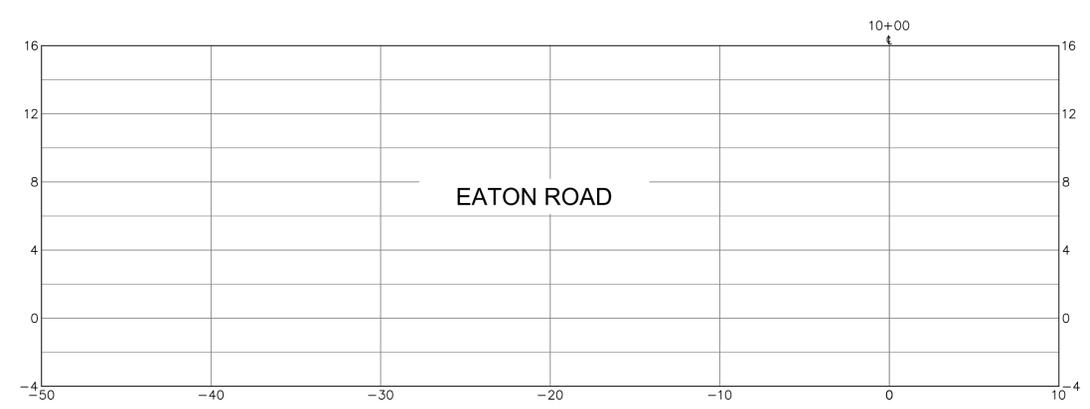
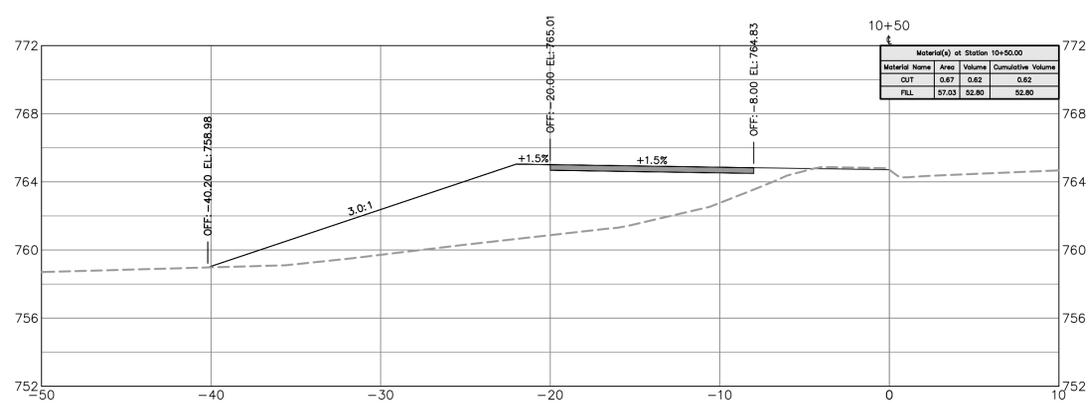
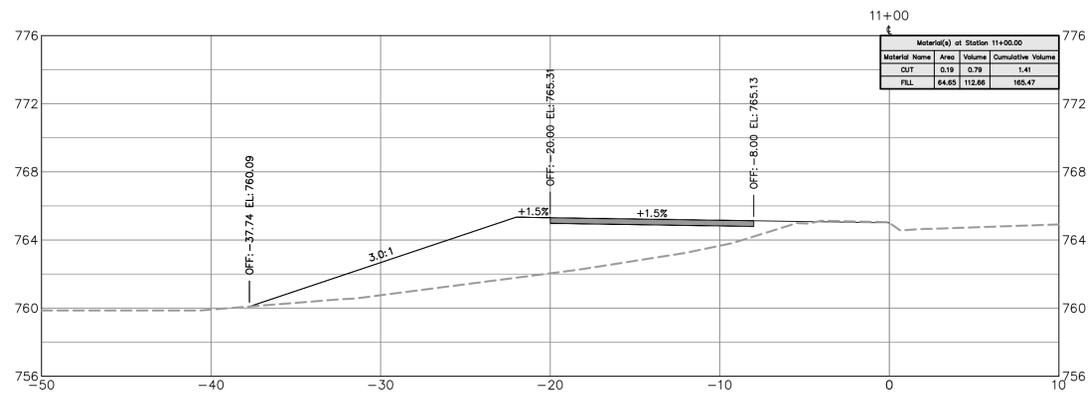
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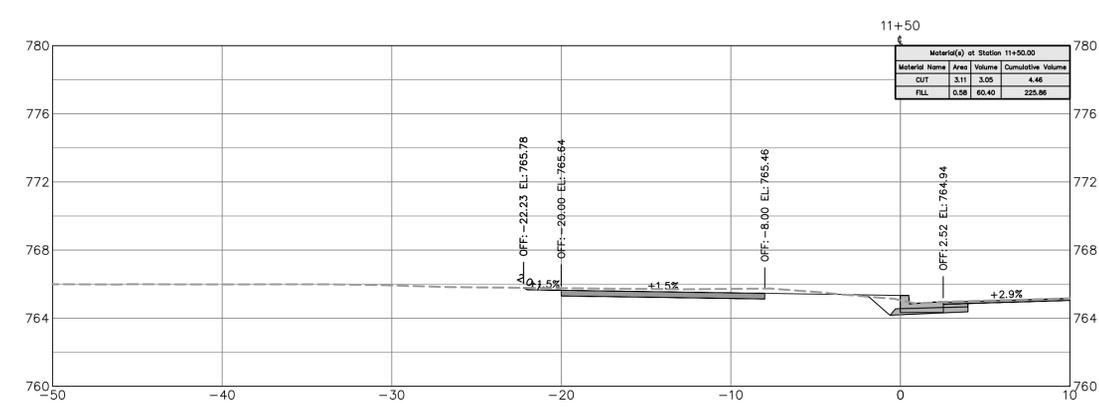
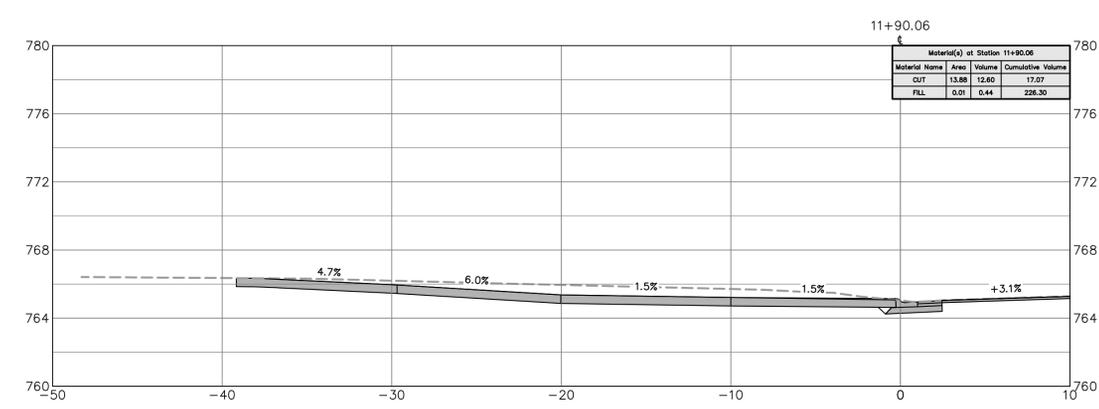
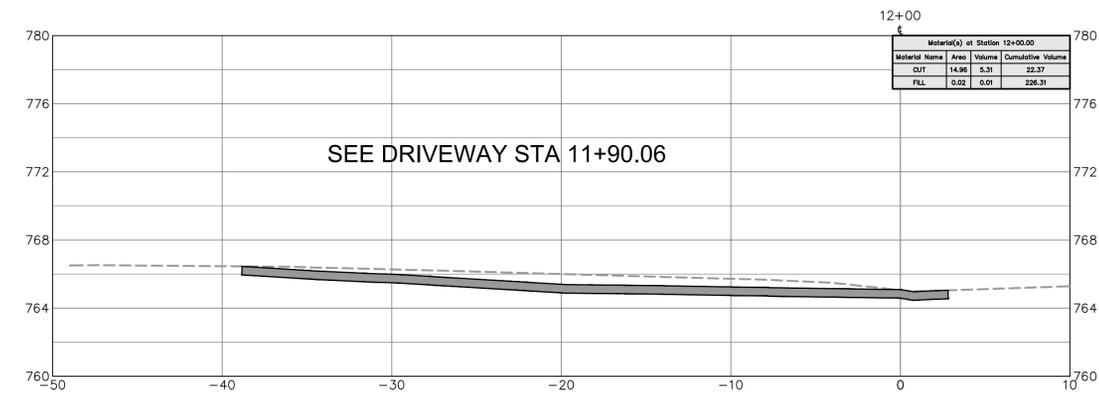
MONROE ROAD
MULTI-USE PATH
EROSION CONTROL

SHEET
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NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



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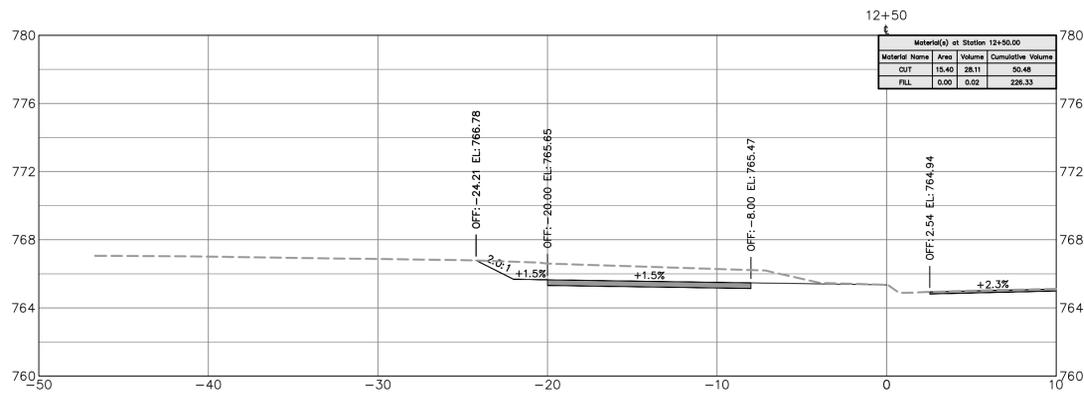
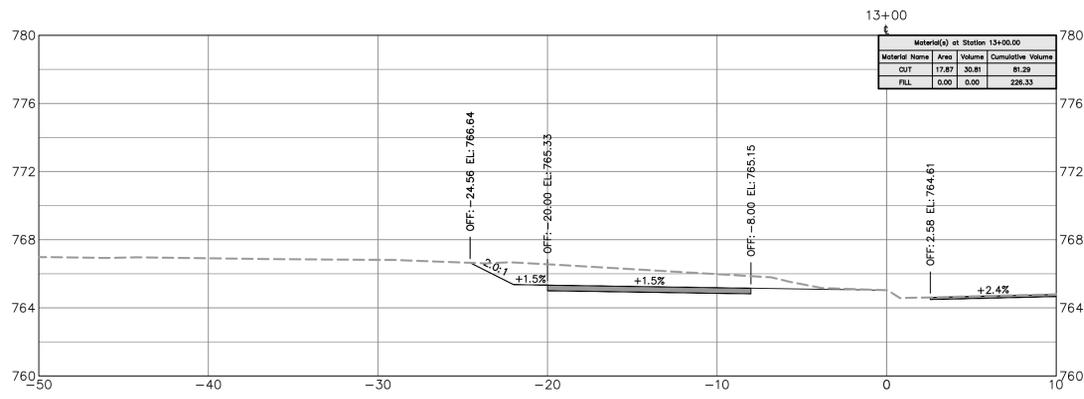
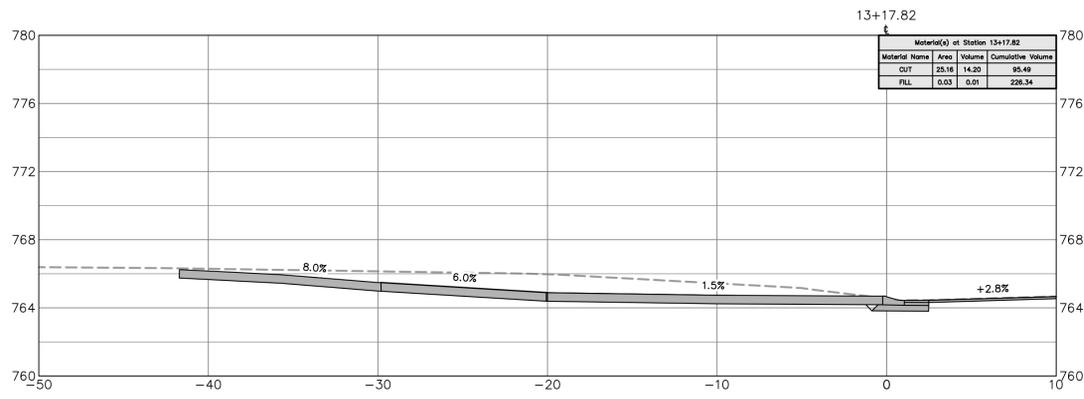
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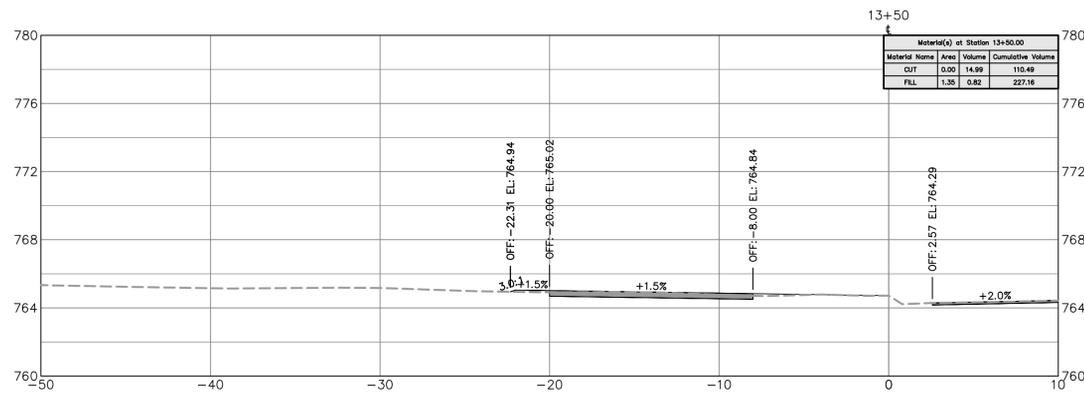
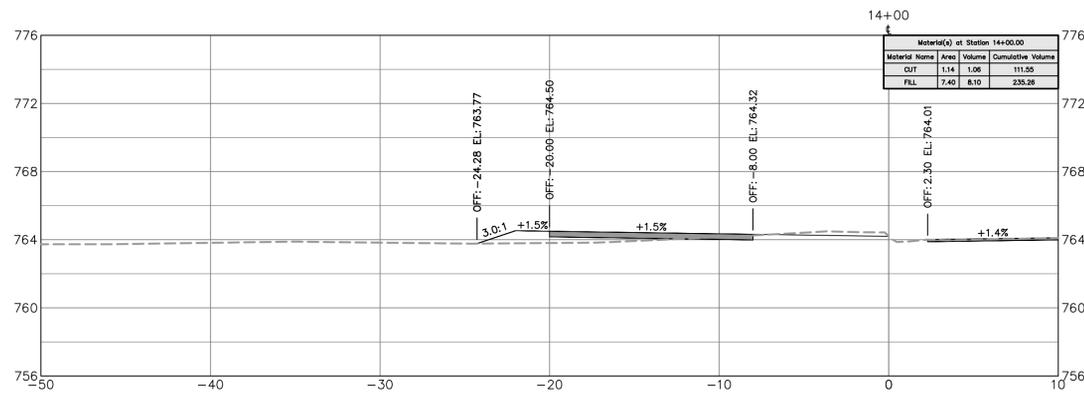
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MONROE ROAD MULTI-USE PATH	SHEET X1	CROSS SECTIONS	OF X15

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LANIER AVENUE



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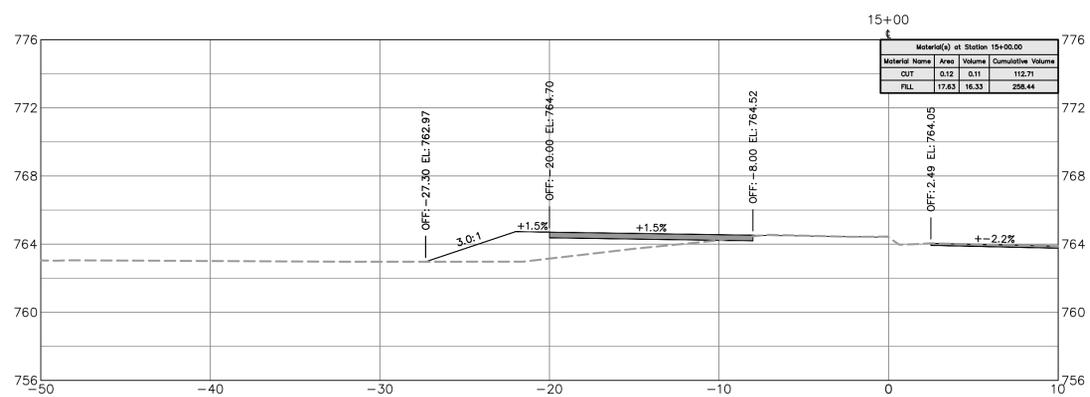
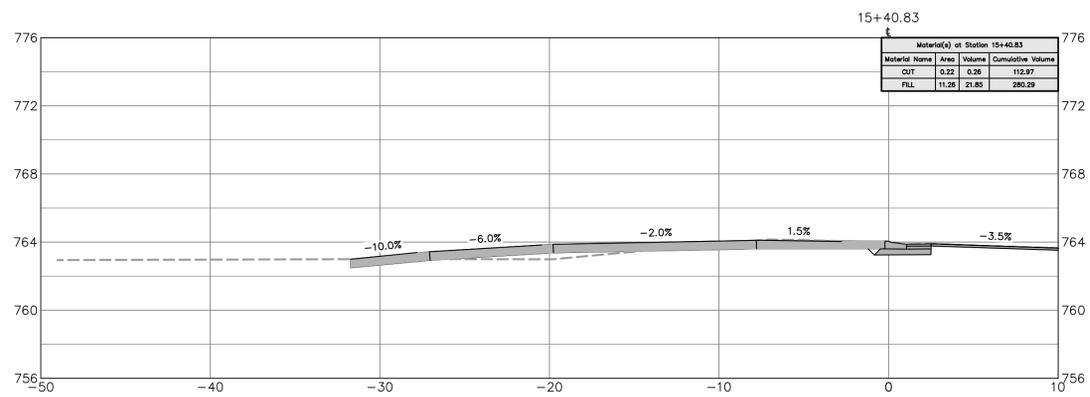
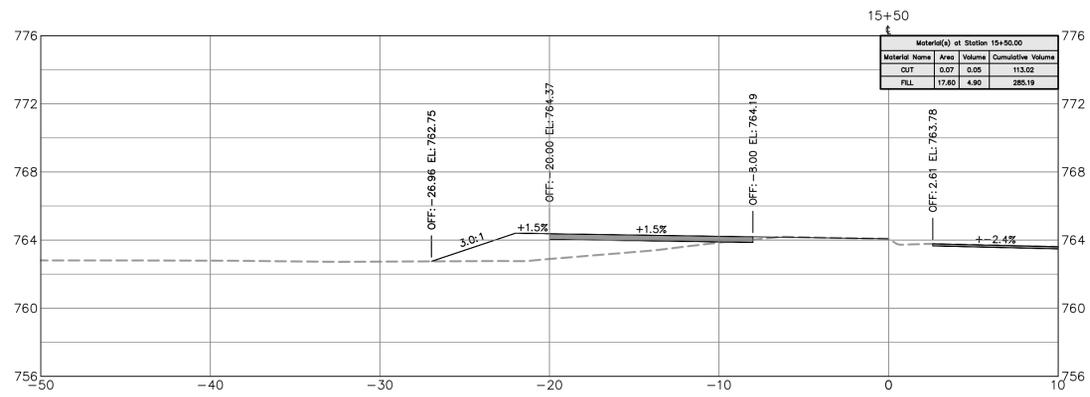
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10-25-2024	DATE

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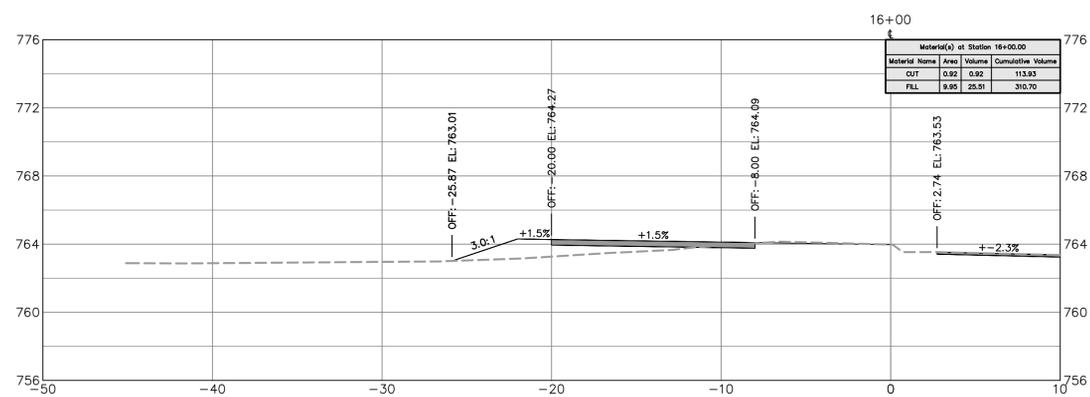
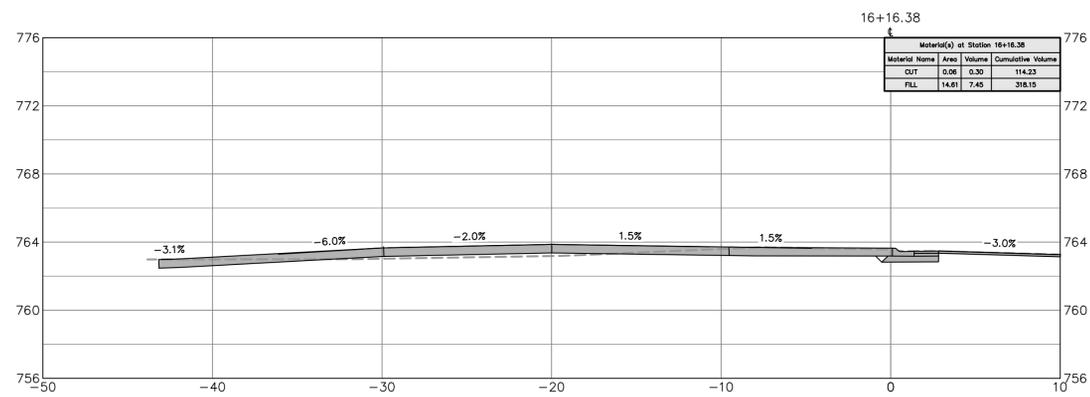
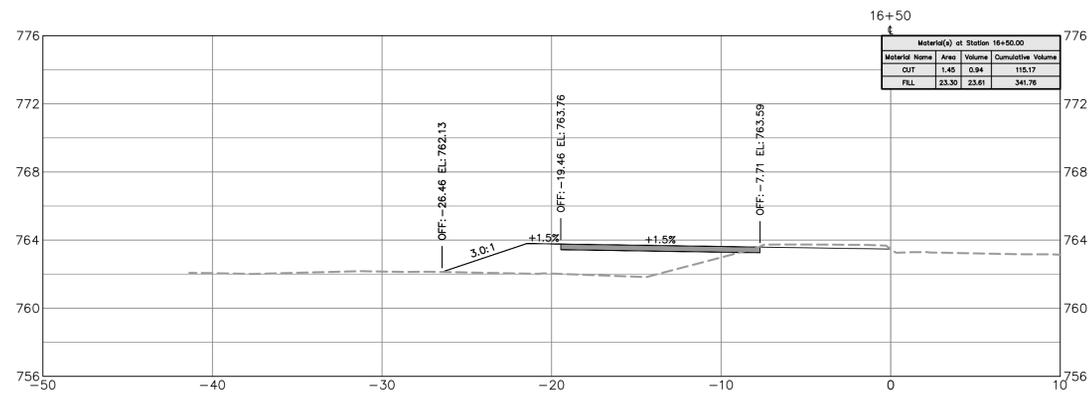
MONROE ROAD
MULTI-USE PATH
CROSS SECTIONS

SHEET
X2
OF
X15

Plotted By: Rowles, Denny Sheet: Sect: Monroe Road MUP Layout: X3 October 25, 2024 11:02:58am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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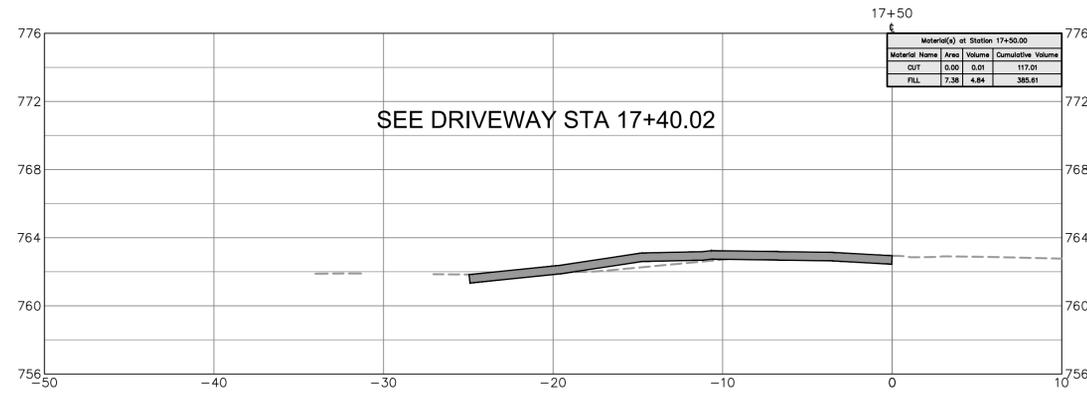
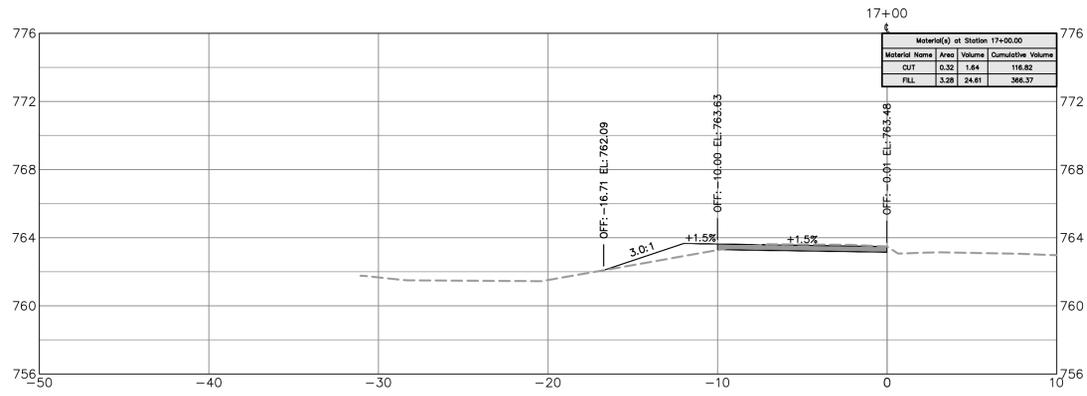
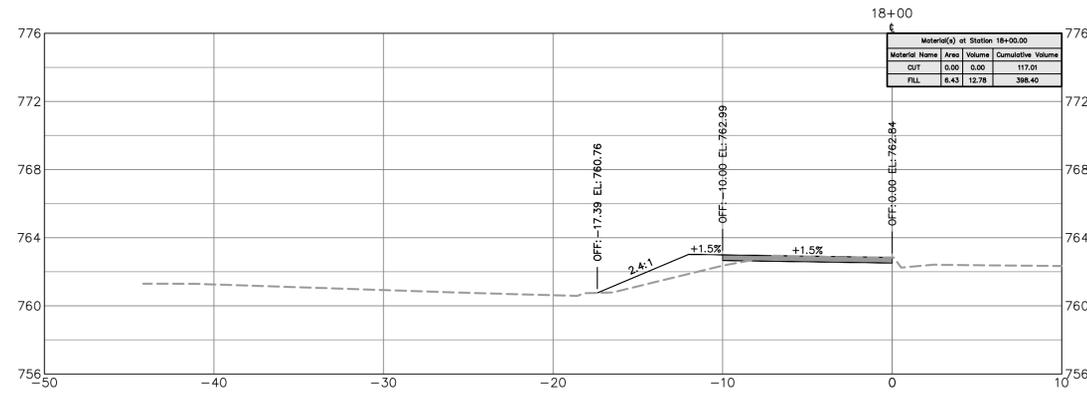
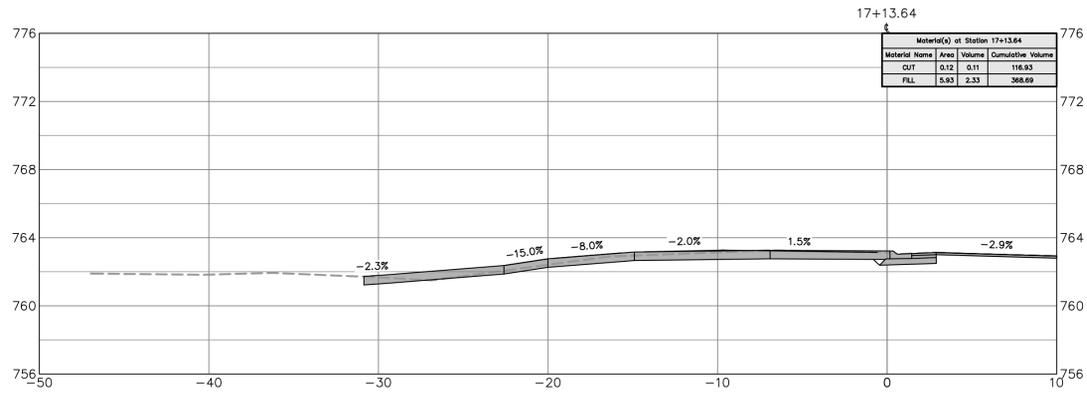
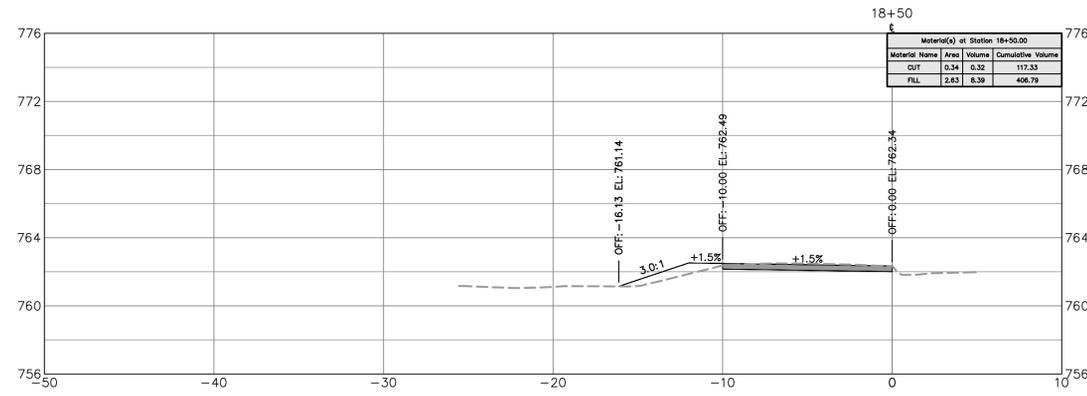
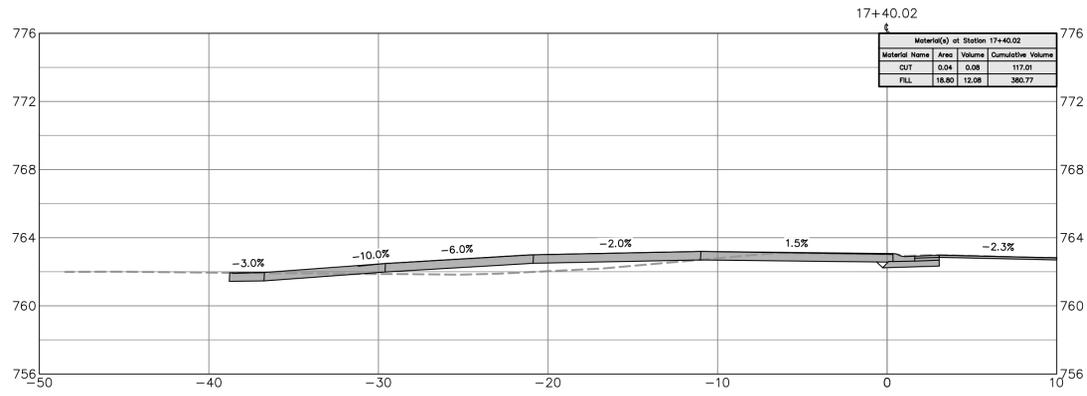
1"=5' SCALE	ARM CHECKED BY	10-25-2024 DATE
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**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET **X3** OF **X15**

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SEE DRIVEWAY STA 17+40.02



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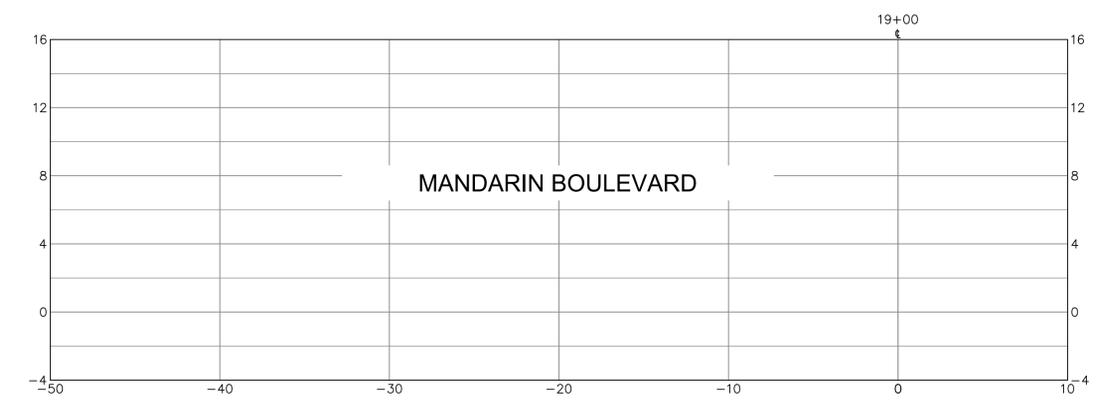
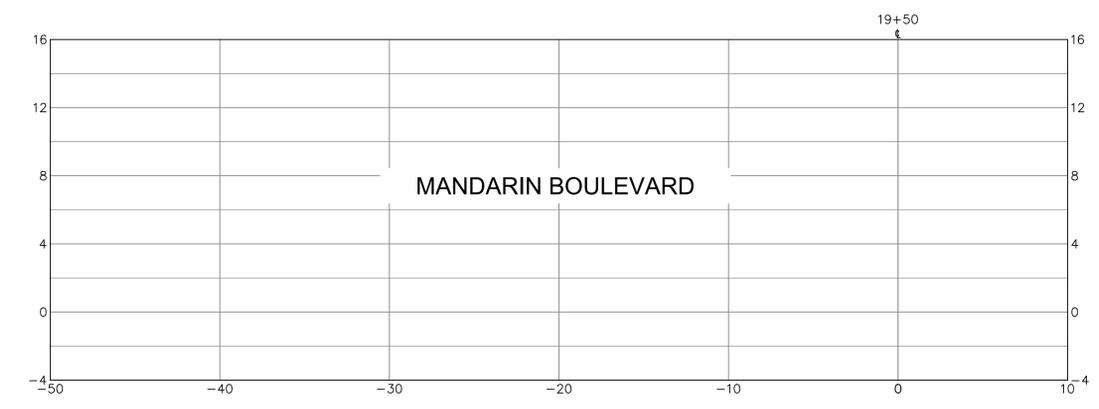
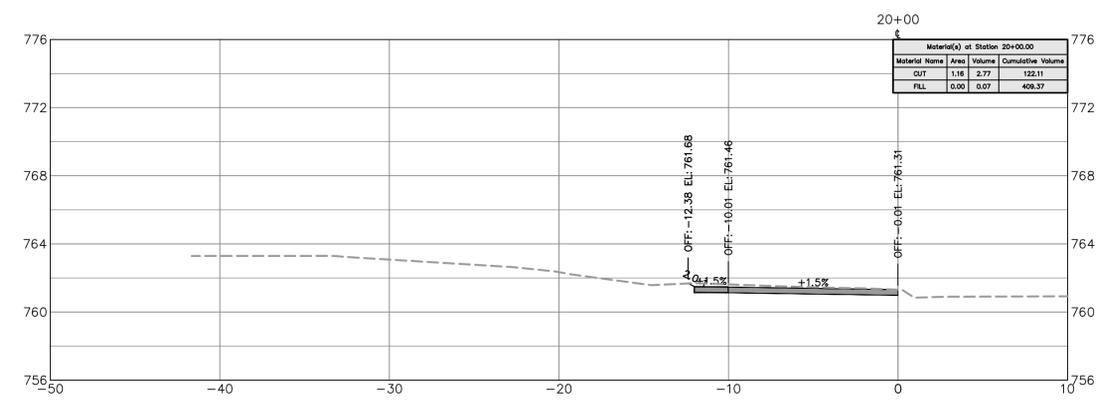
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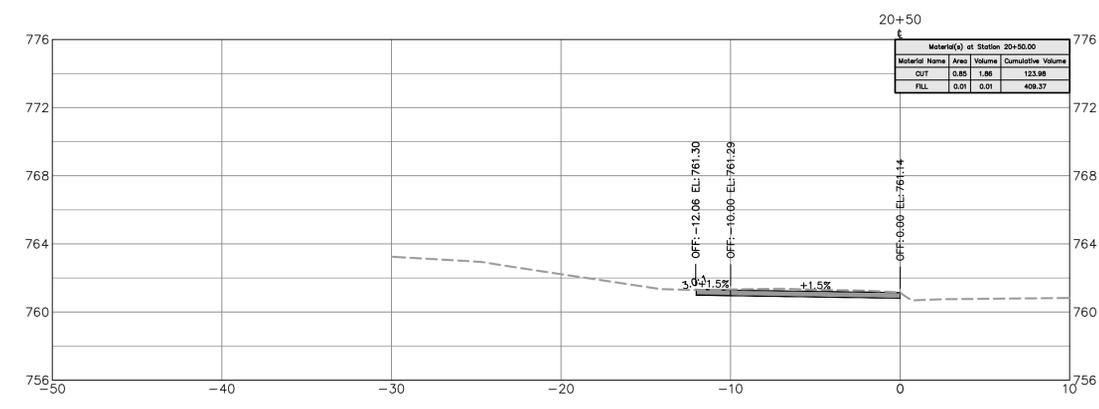
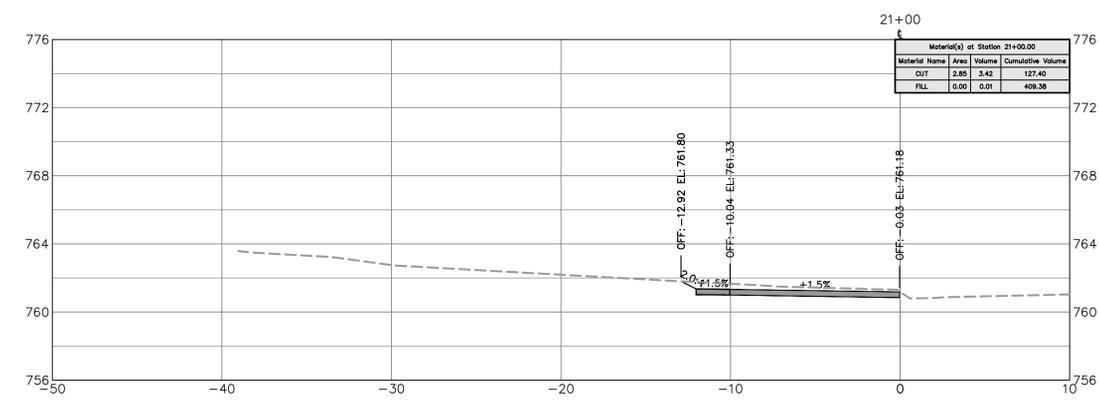
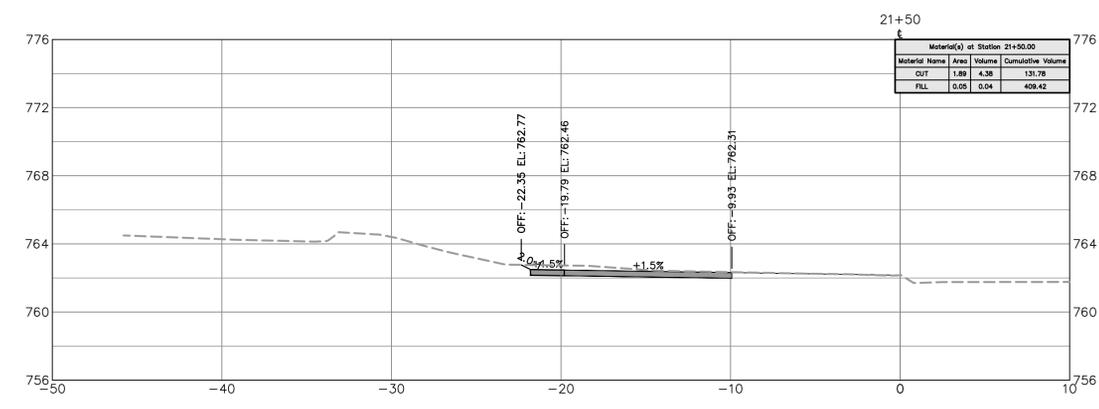
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PME521694	JOB NO.	EAC	PREPARED BY	BST	APPROVED BY

SHEET	MONROE ROAD MULTI-USE PATH	
	X4	OF X15
CROSS SECTIONS		

Plotted By: Roveles, Denny Sheet: Sect: Monroe Road MUP Layout: X5 October 25, 2024 11:02:53am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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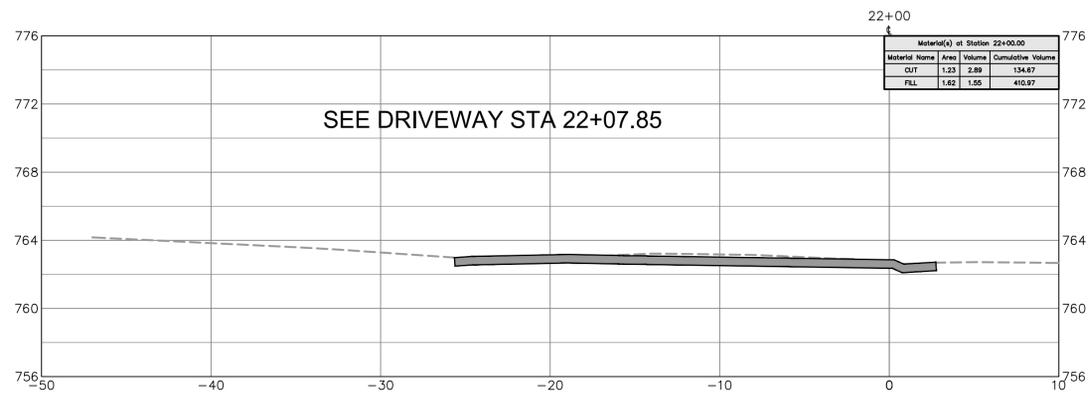
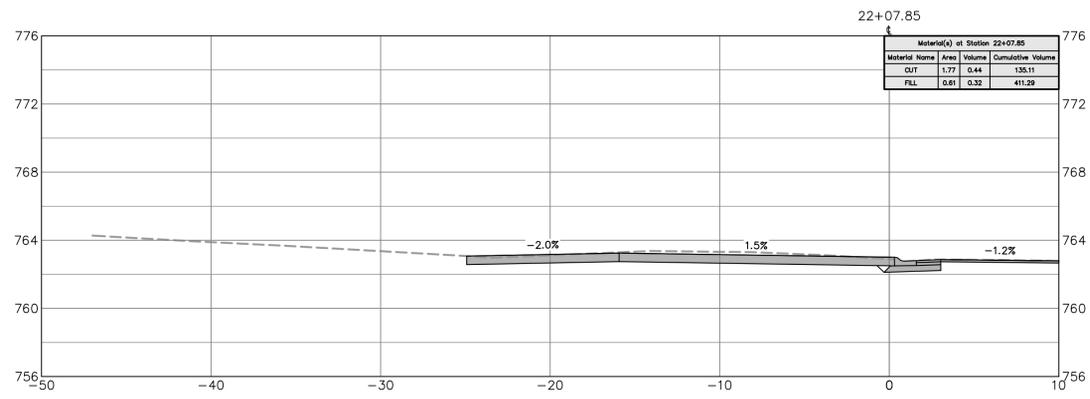
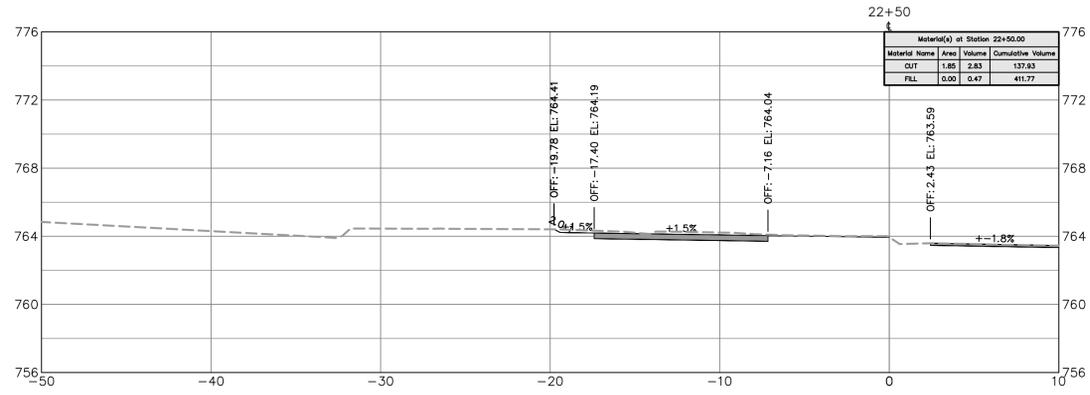
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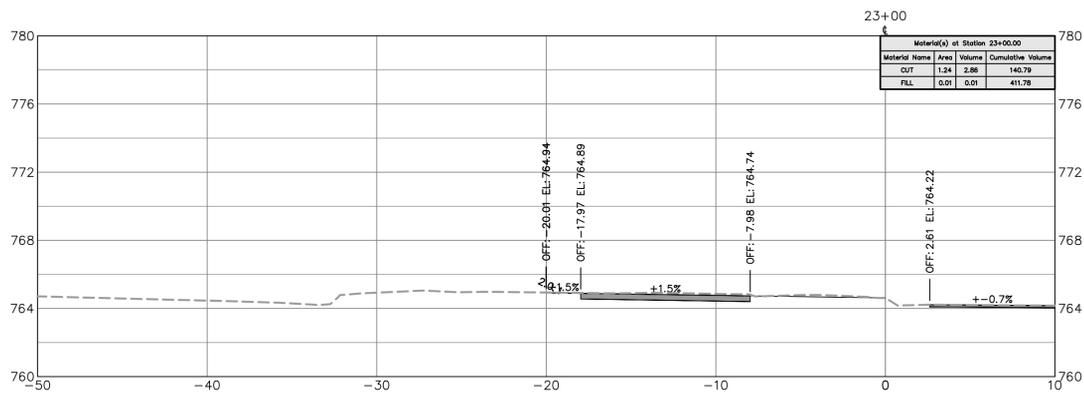
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PMES211694 JOB NO.	EAC PREPARED BY	BST APPROVED BY

MONROE ROAD MULTI-USE PATH	SHEET X5
CROSS SECTIONS	OF X15

Plotted By: Rowels, Denny Sheet: Sect: Monroe Road MUP Layout: X6 October 25, 2024 11:02:46am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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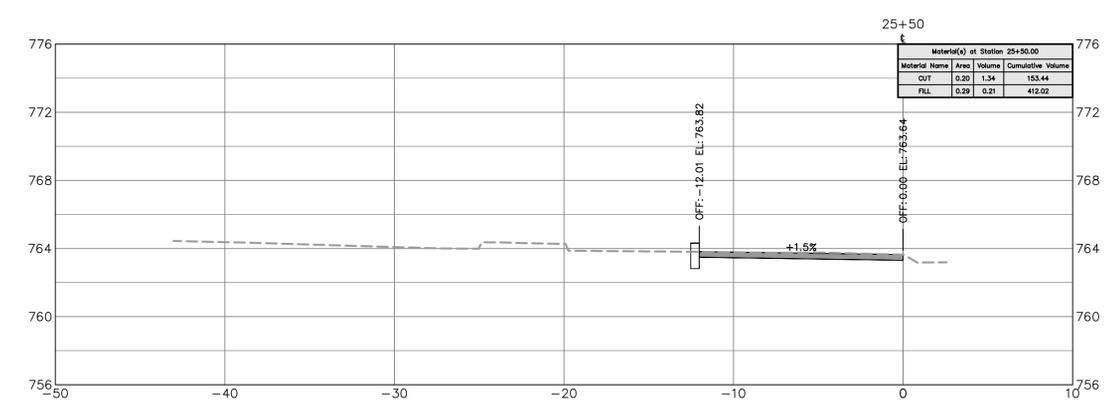
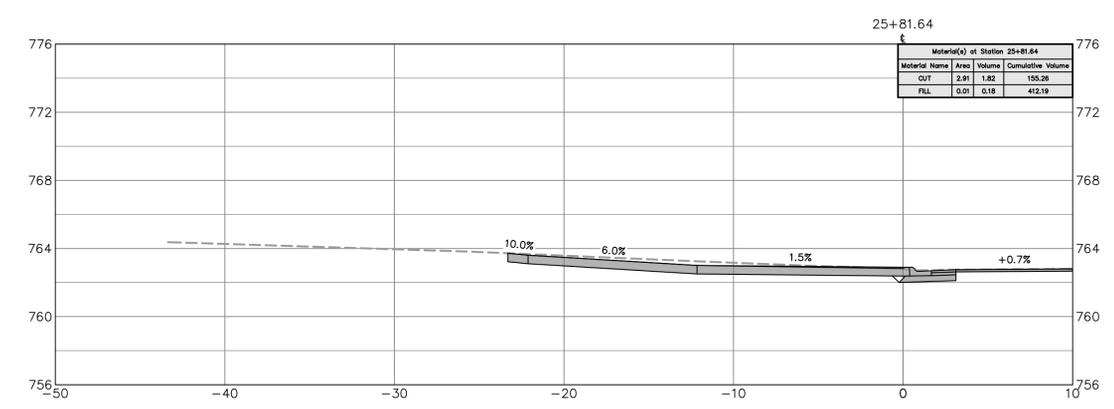
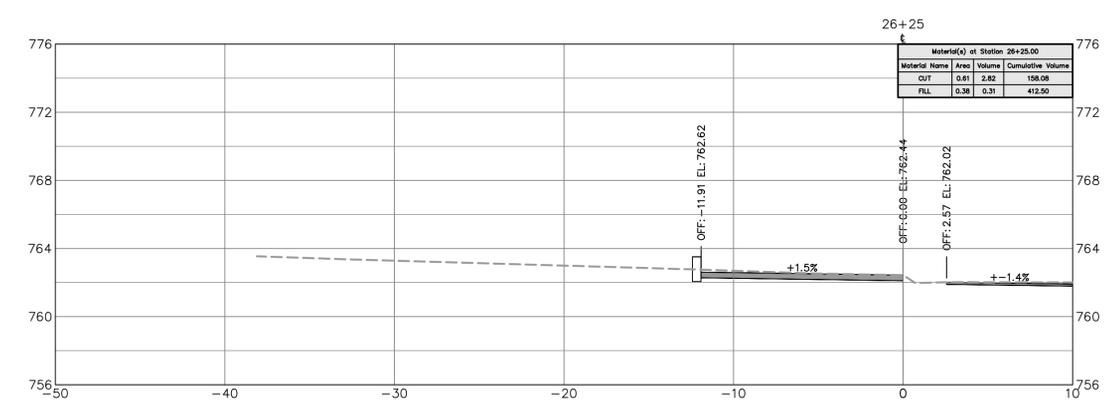
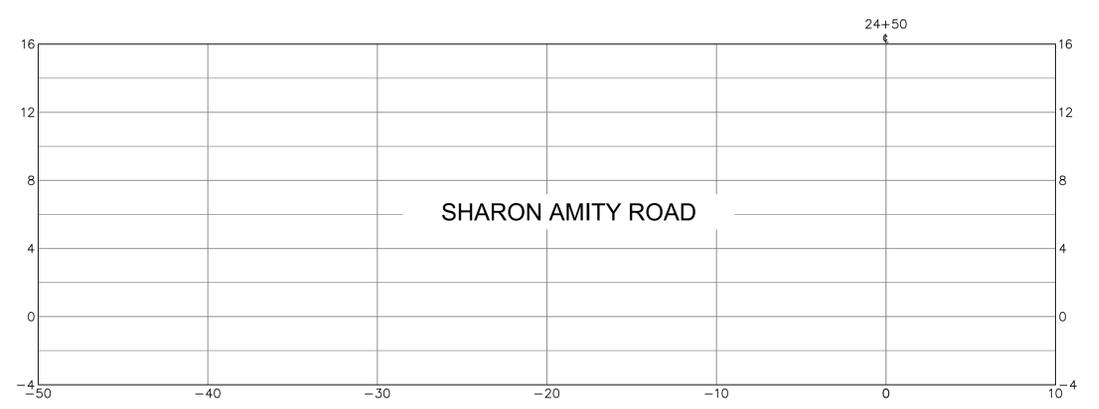
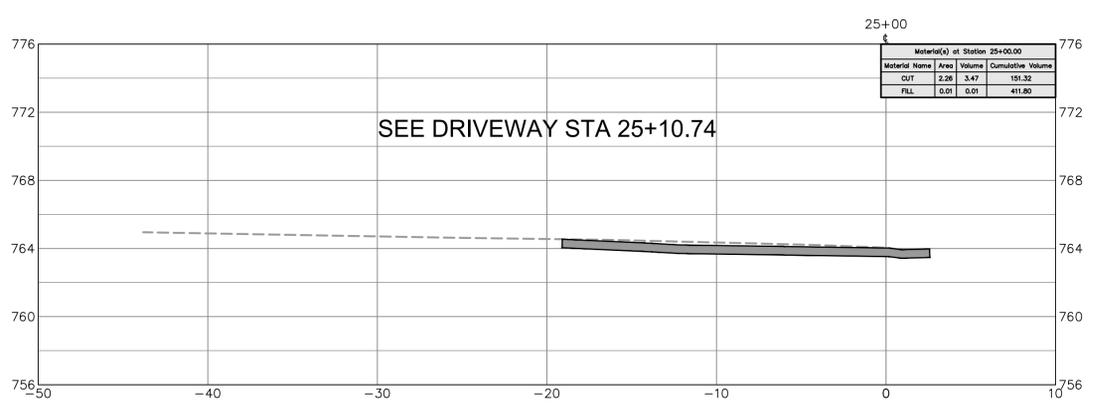
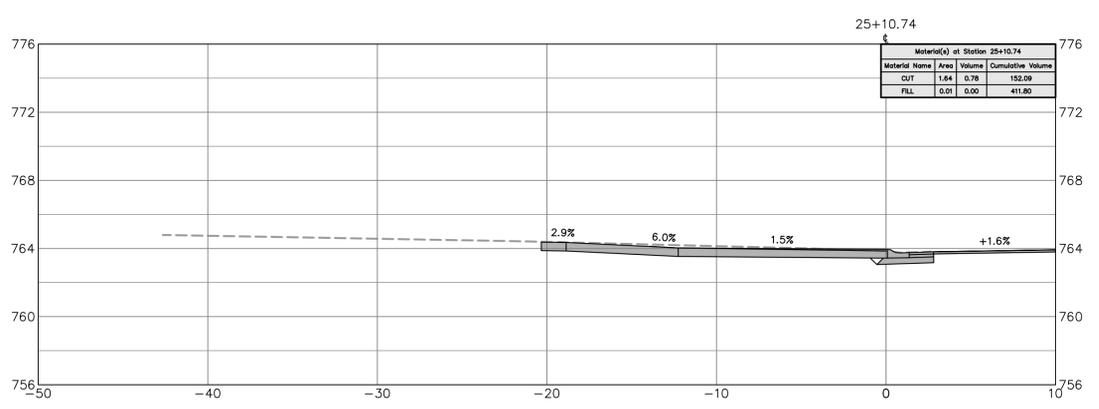
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**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET **X6** OF **X15**

Plotted By: Roveis, Denny Sheet: Sect: Monroe Road MUP Layout: X7 October 25, 2024 11:02:48am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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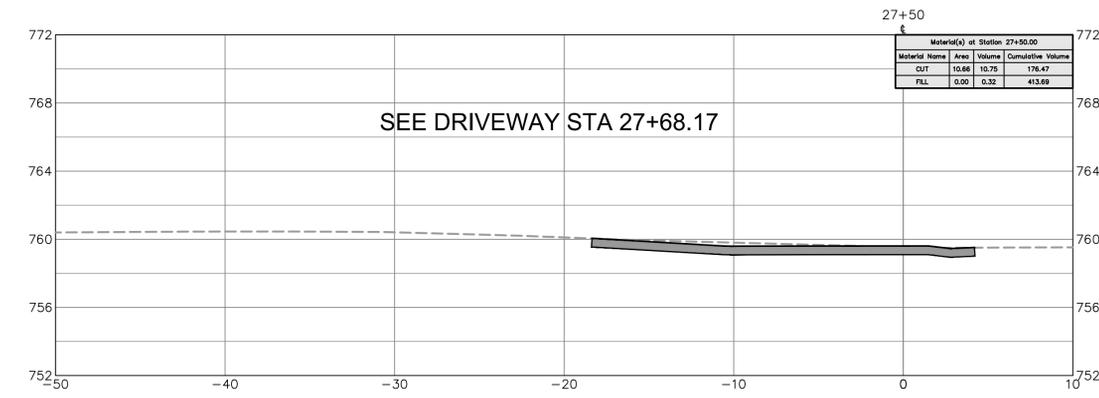
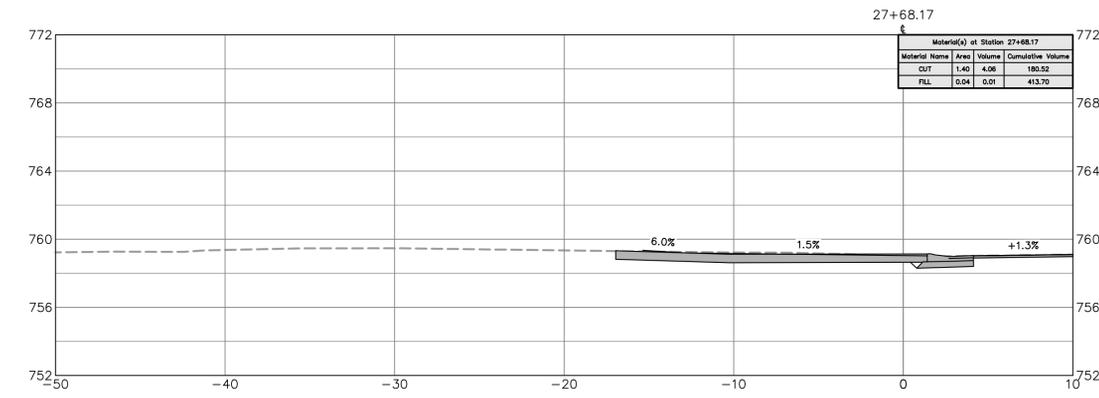
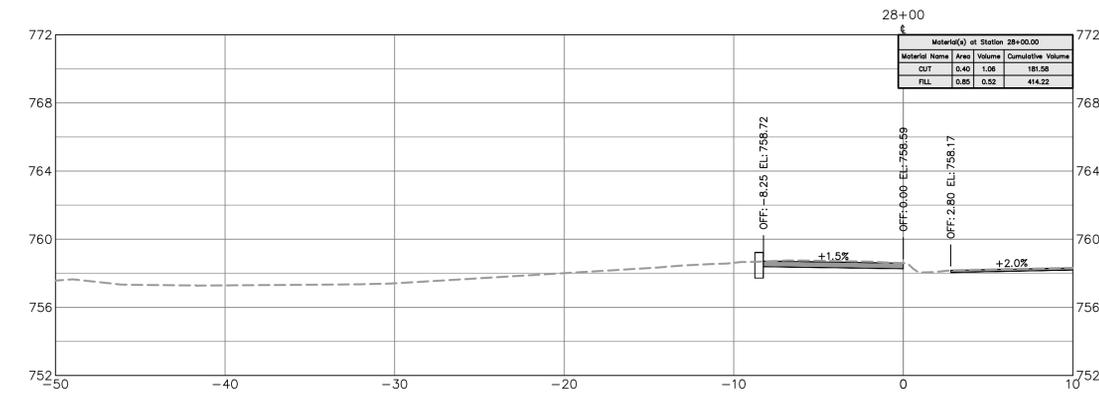
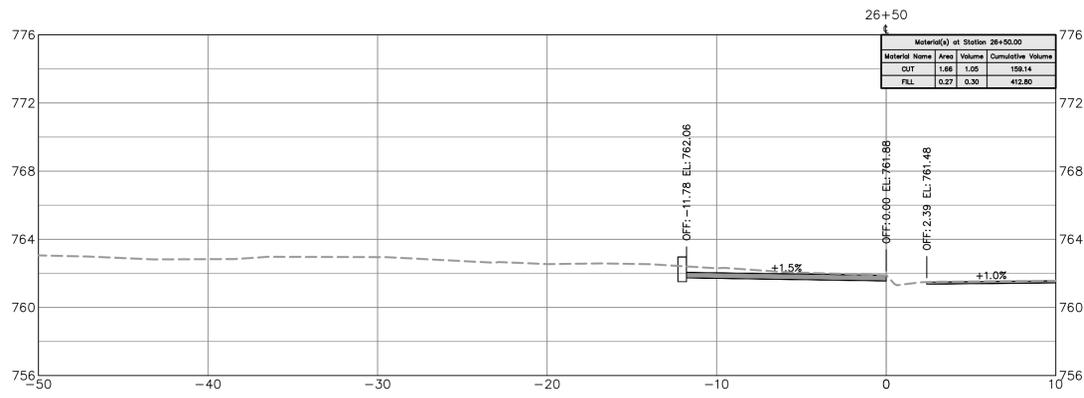
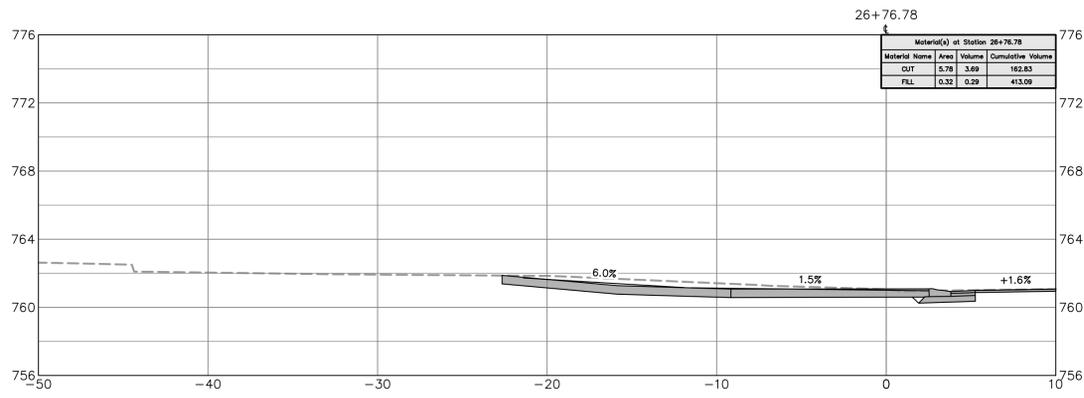
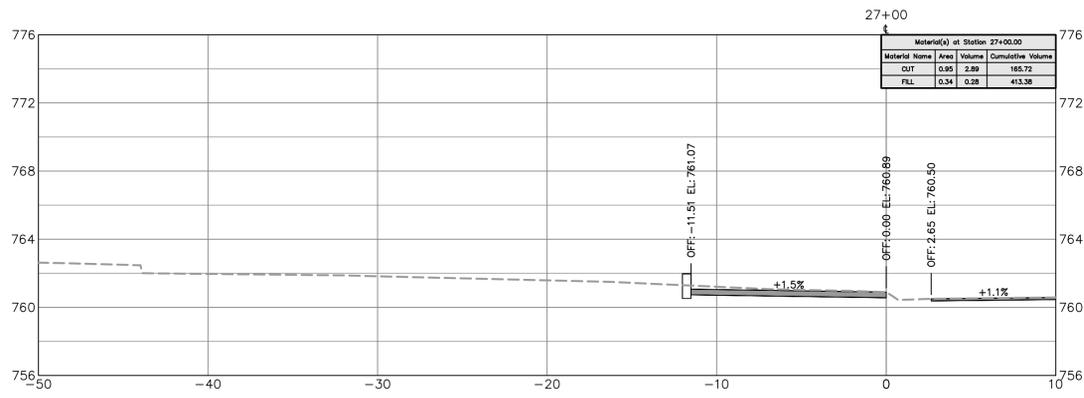
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MONROE ROAD MULTI-USE PATH	CROSS SECTIONS
SHEET X7	OF X15

Plotted By: R. Davis, Denny Sheet Set: Monroe Road MUP Layout: X8 October 25, 2024 11:02:53am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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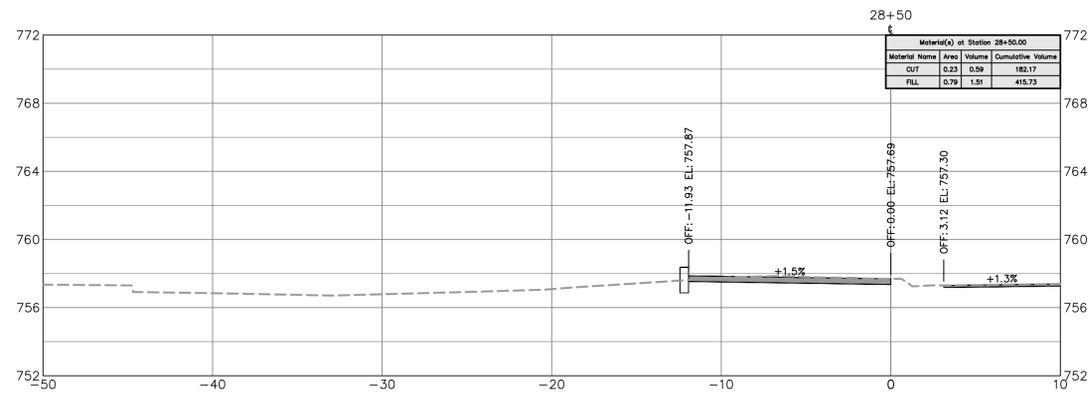
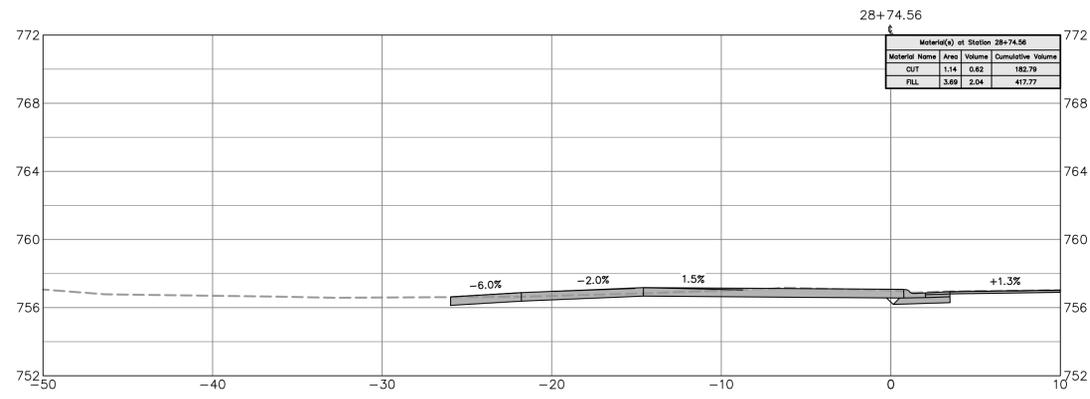
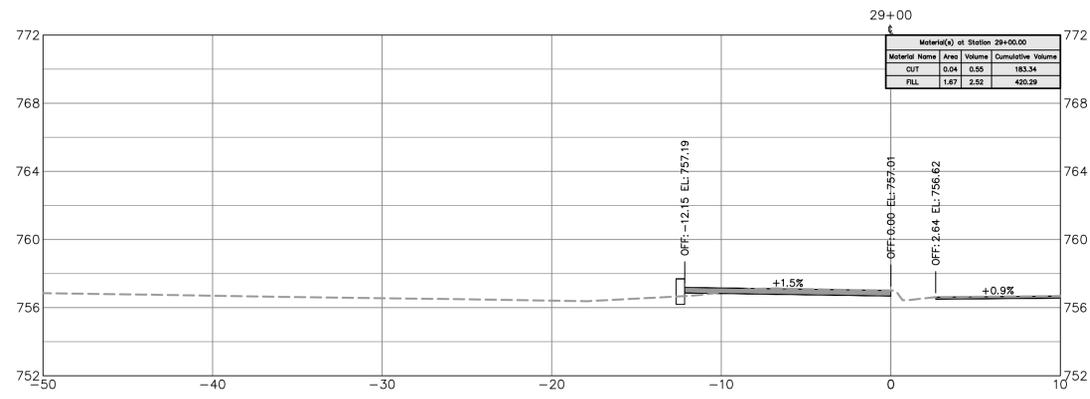
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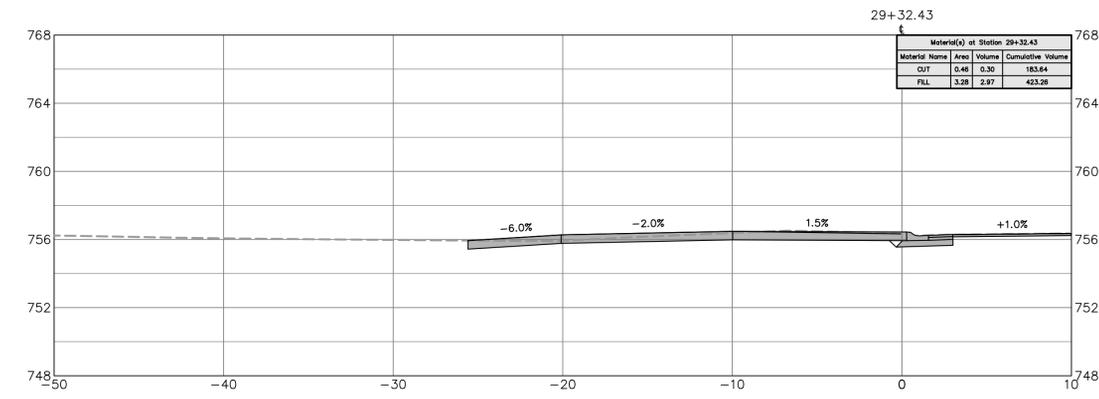
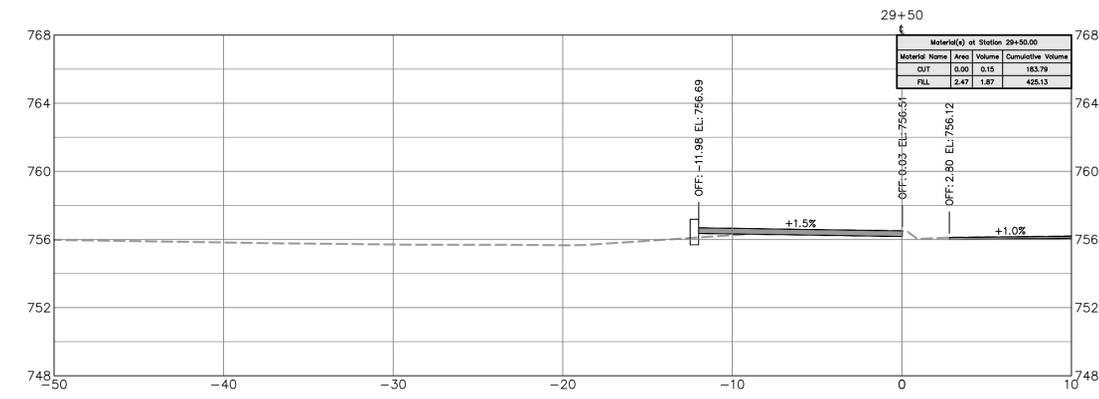
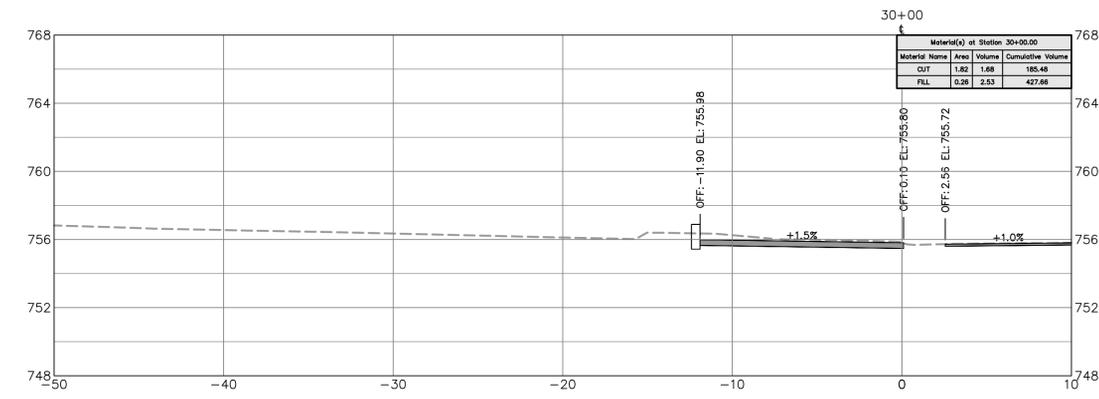
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PME5211694	JOB NO.	EAC	PREPARED BY	BST	APPROVED BY

MONROE ROAD MULTI-USE PATH	CROSS SECTIONS
SHEET X8	OF X15

Plotted By: Ravello, Donny Sheet: Sect: Monroe Road MUP Layout: X9 October 25, 2024 11:02:55am K:\CHL_PRA\015016 City of Charlotte\241 South Pedestrian\Monroe Rd MUP\04_CADD\PlanSheets\C120-CROSS SECTIONS.dwg



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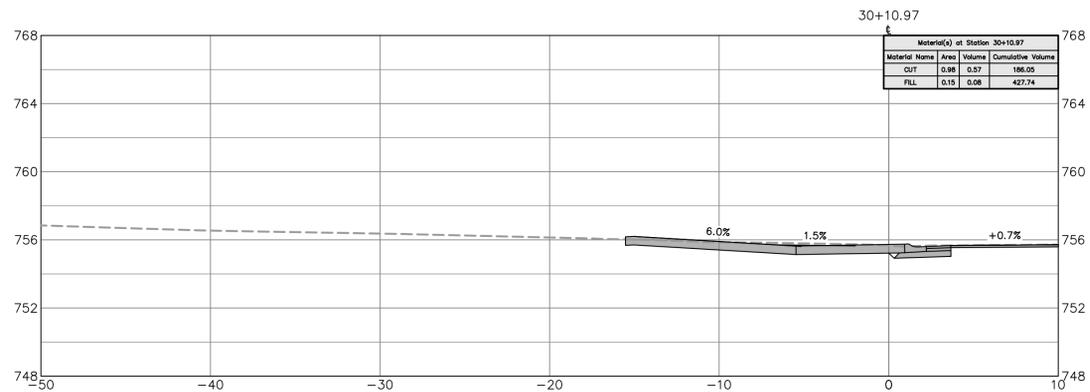
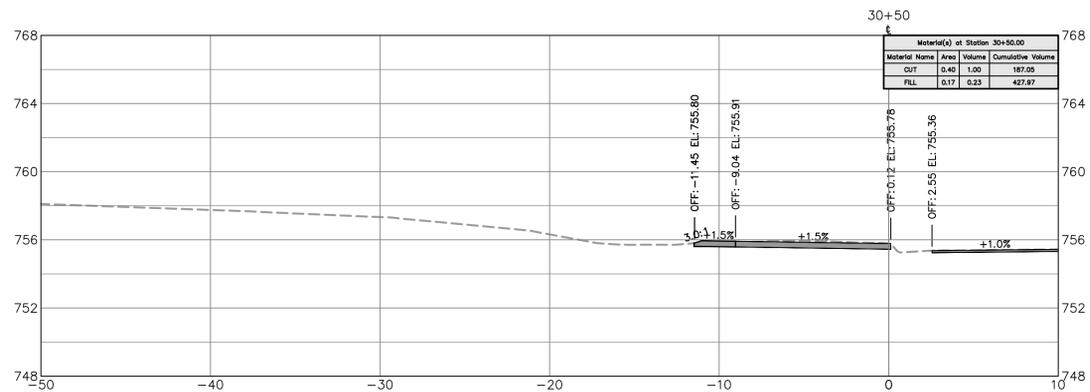
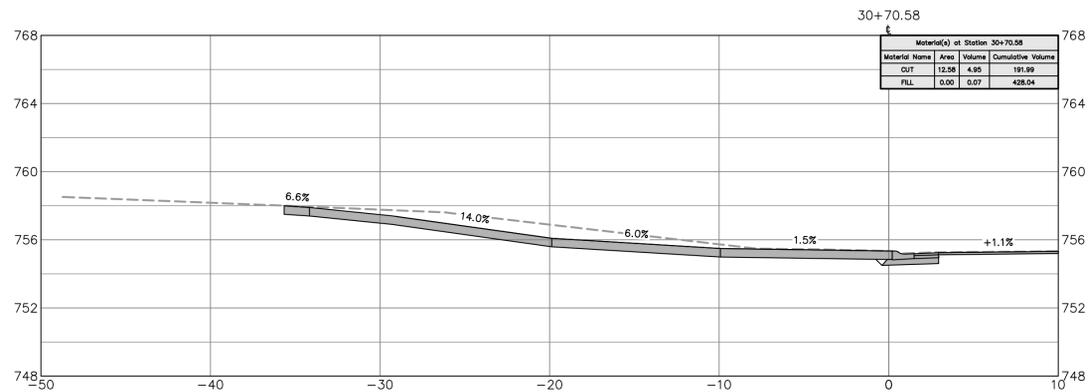
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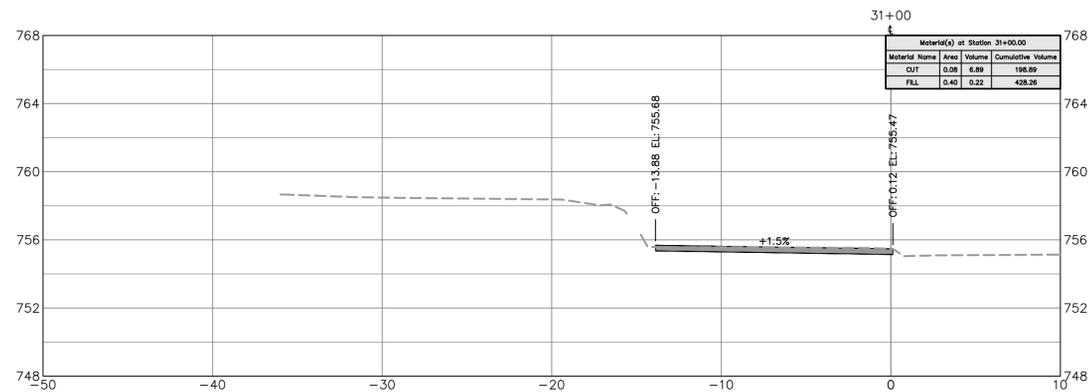
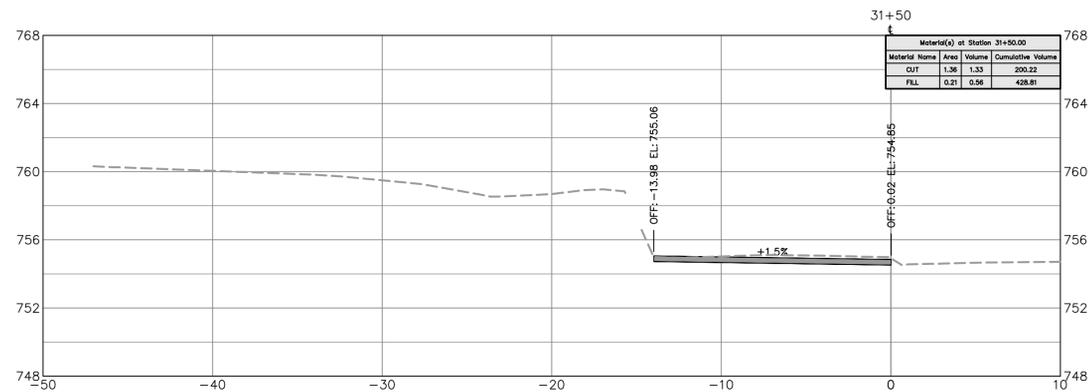
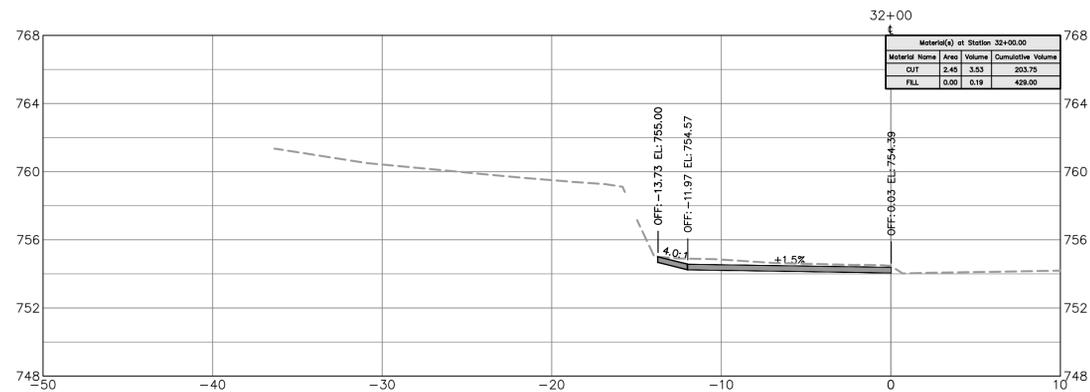
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PME5211694 JOB NO.	EAC PREPARED BY	BST APPROVED BY

MONROE ROAD MULTI-USE PATH	CROSS SECTIONS
SHEET X9	OF X15

Plotted By: Ravello, Donny Sheet: Sect: Monroe Road MUP Layout: X10 October 25, 2024 11:02:58am K:\CHL_PRO\1015016 City of Charlotte\241- South Pedestrian_(Monroe Rd MUP)\04_CADD\PlanSheets\10120-CROSS SECTIONS.dwg



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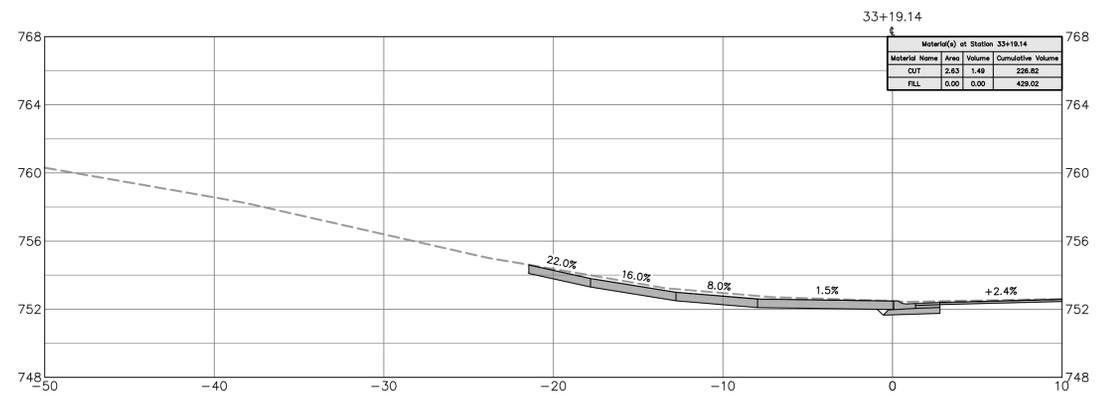
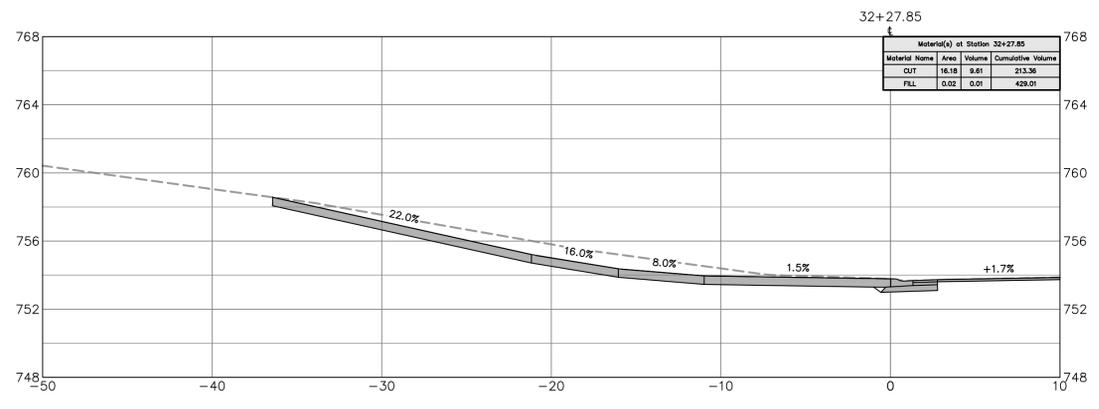
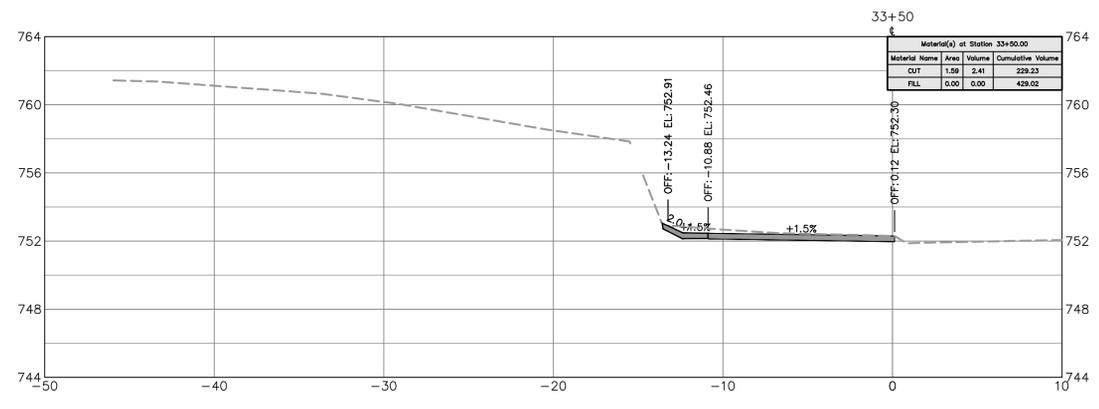
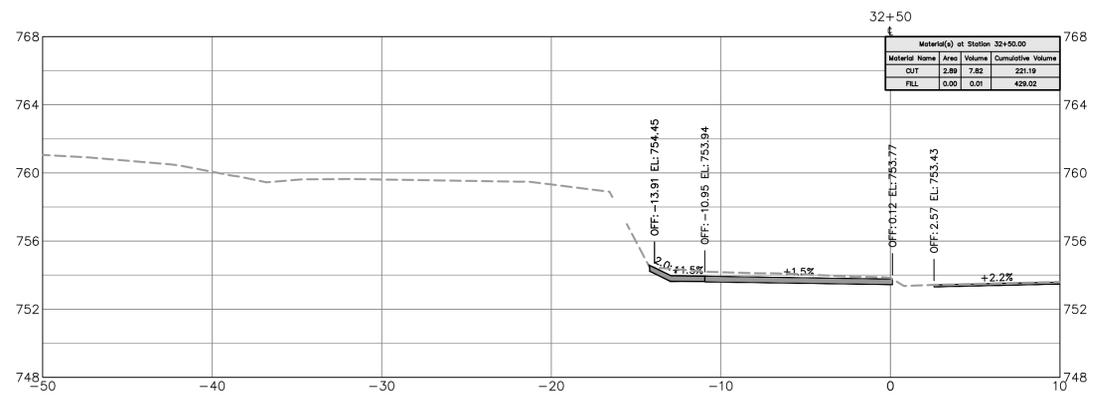
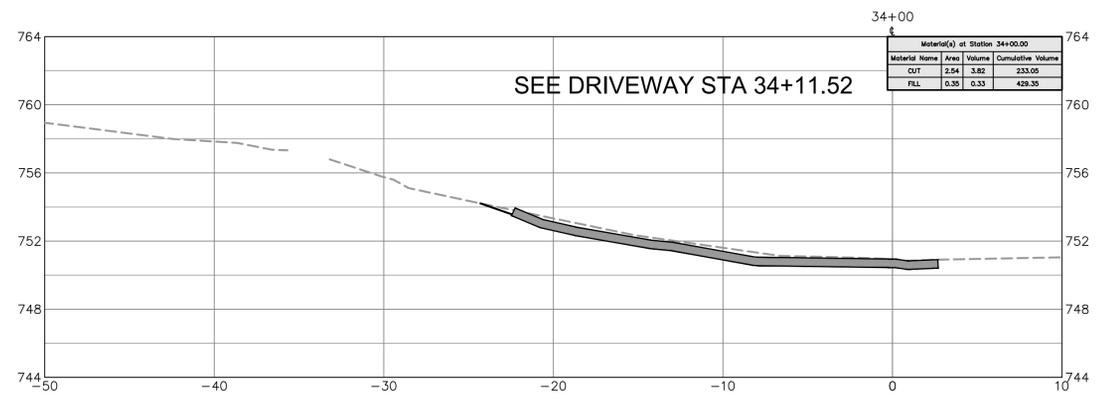
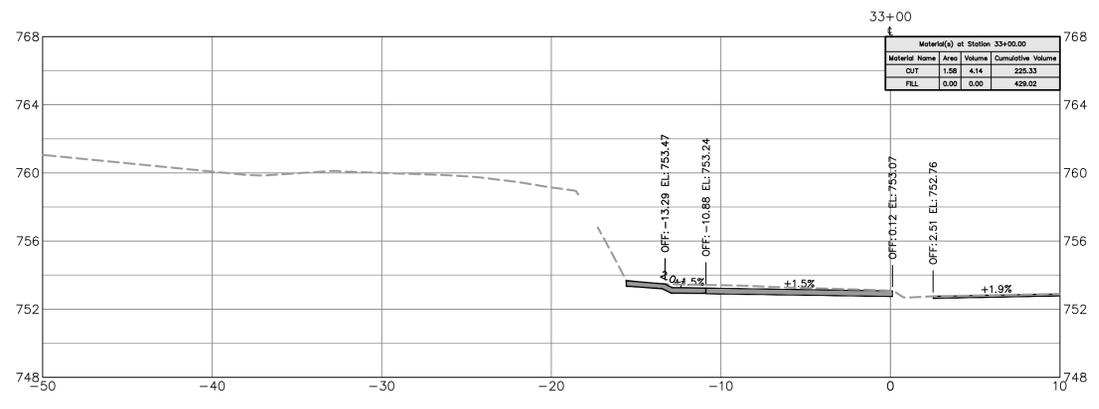
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**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET
X10
OF
X15

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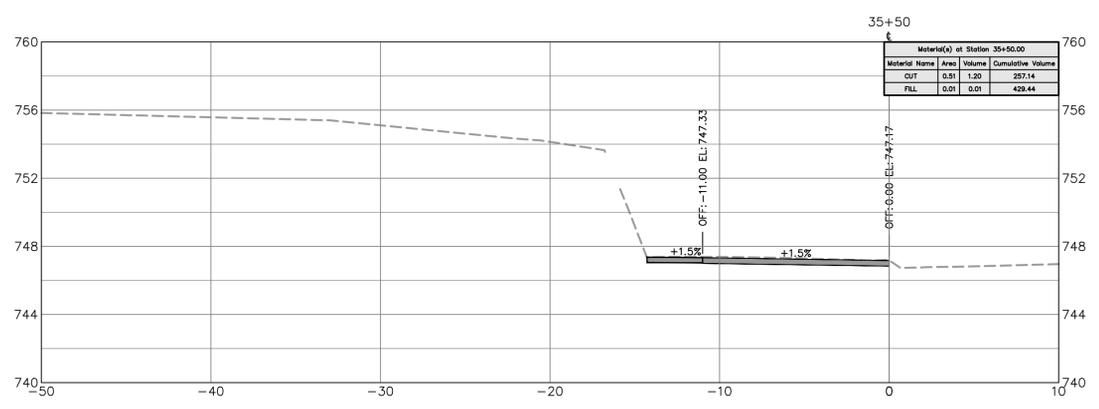
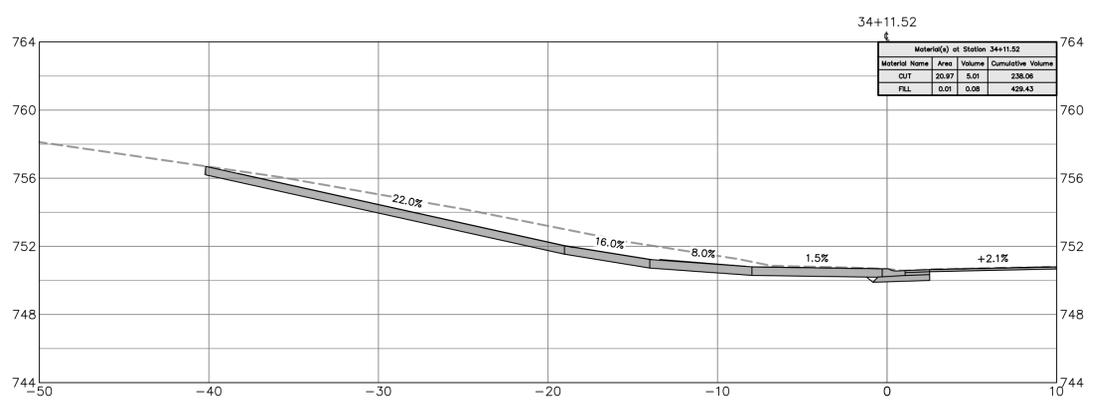
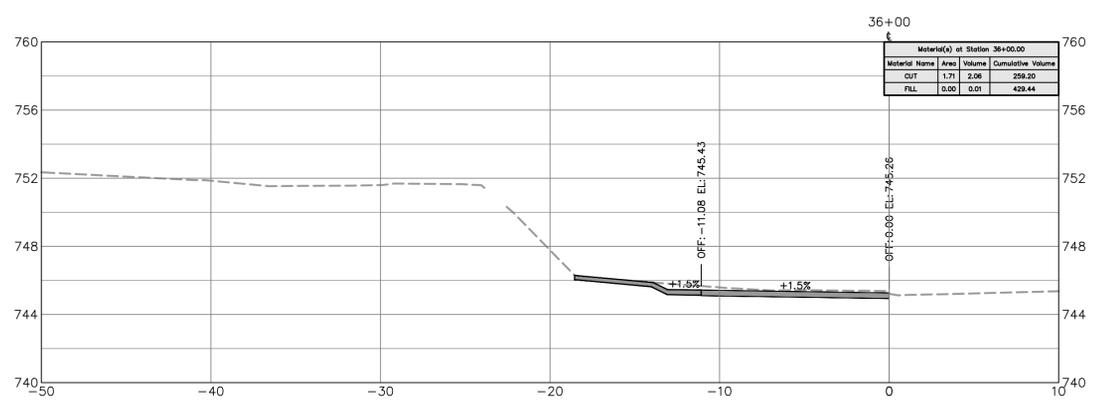
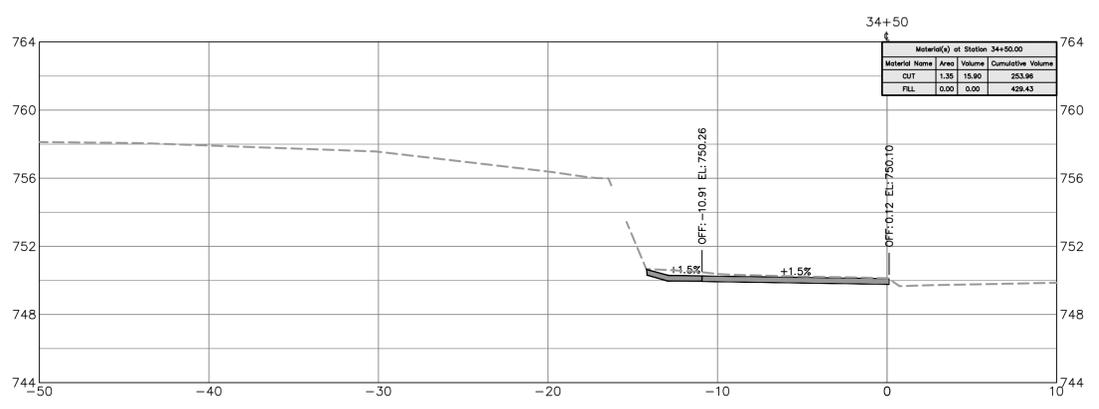
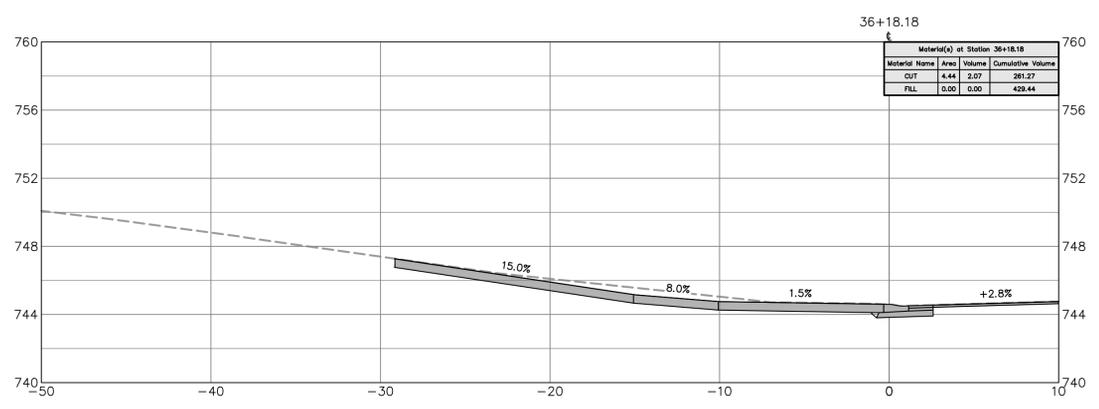
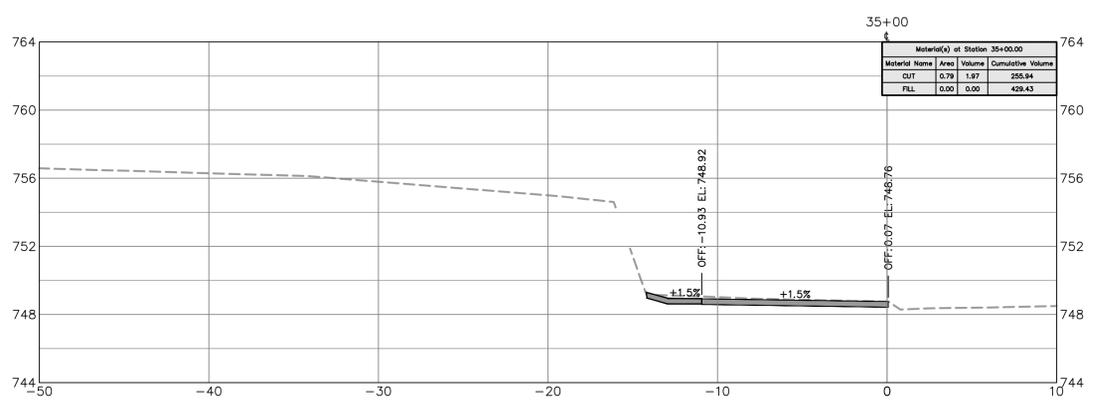
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MONROE ROAD MULTI-USE PATH	CROSS SECTIONS
SHEET X11	OF X15

Plotted By: Ravello, Donny Sheet: Sect-Monroe Road MUP Layout: X12 October 25, 2024 11:03:05am K:\CHL_PRC\1015016 City of Charlotte\241-South Pedestrian-(Monroe Rd MUP)\04-CADD\PlanSheets\1020-CROSS SECTIONS.dwg



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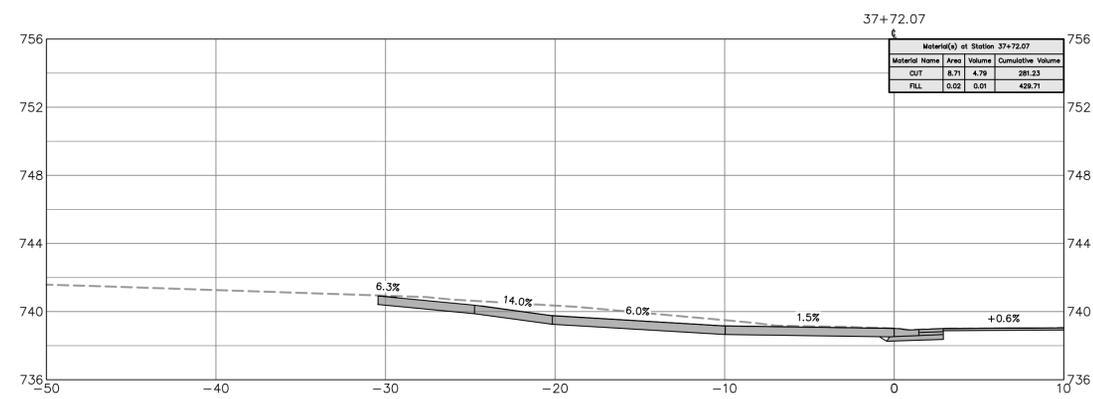
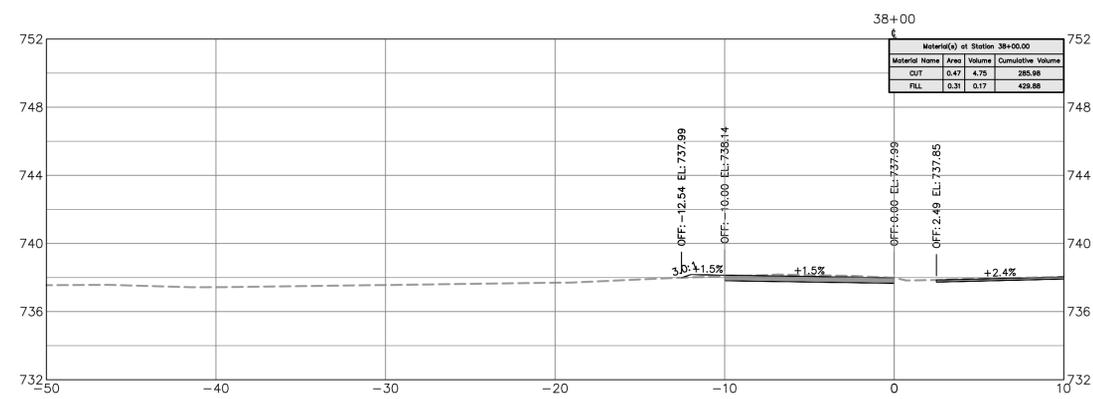
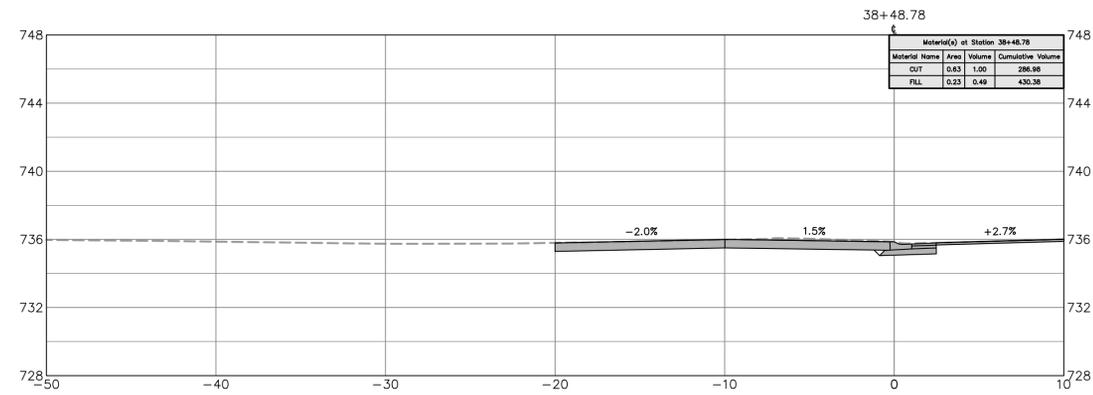
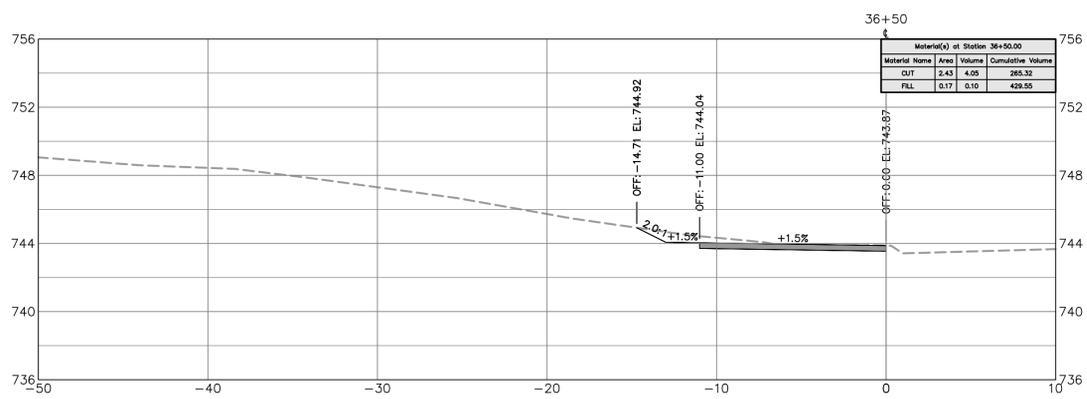
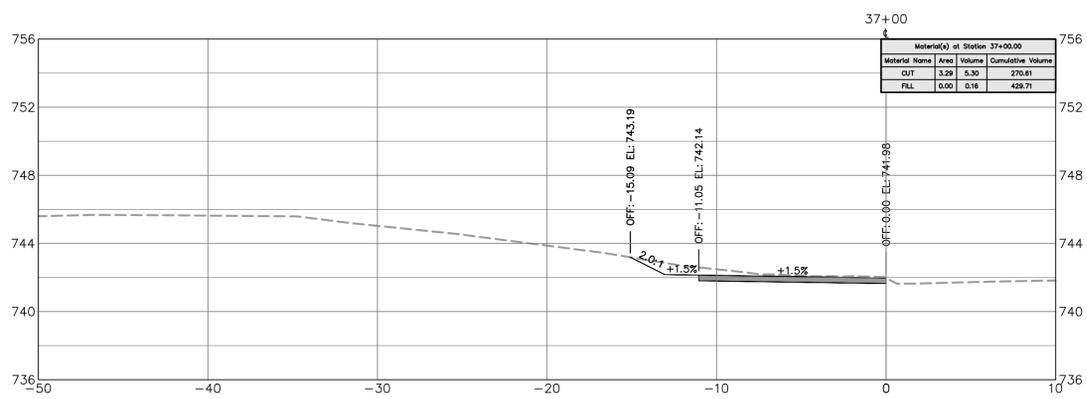
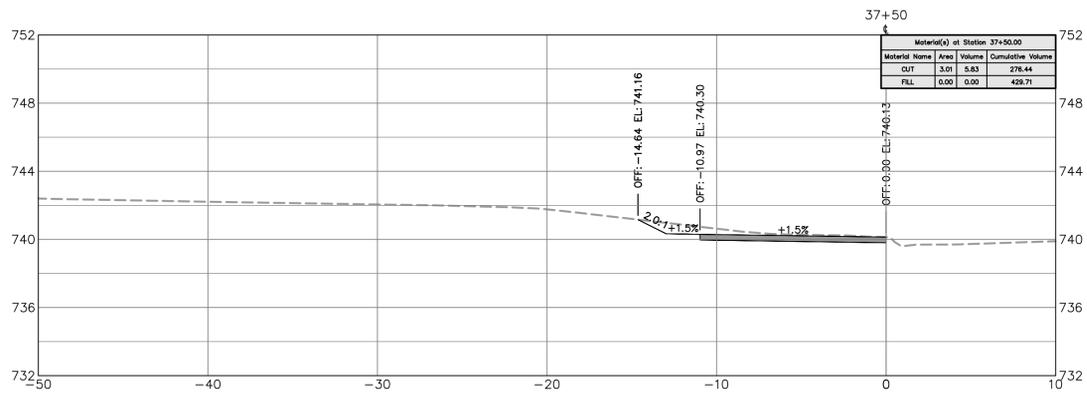
NO.	DATE	BY	DESCRIPTION



1"=5' SCALE	ARM CHECKED BY	10-25-2024 DATE
PME221694 JOB NO.	EAC PREPARED BY	BST APPROVED BY

MONROE ROAD MULTI-USE PATH	CROSS SECTIONS
SHEET X12	OF X15

Plotted By: Rowles, Denny Sheet: Sect: Monroe Road MUP Layout: X13 October 25, 2024 11:03:08am K:\CHL_PRO\1015016 City of Charlotte\241_South Pedestrian_(Monroe Rd MUP)\04_CADD\PlanSheets\1020-CROSS SECTIONS.dwg



NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.

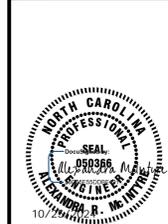


Know what's below. Call before you dig.



Plans Prepared By:
Kimley-Horn
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NC License #F-0102
200 South Tryon Street, Suite 200
Charlotte, NC 28202

NO.	DATE	BY	DESCRIPTION



10/25/2024

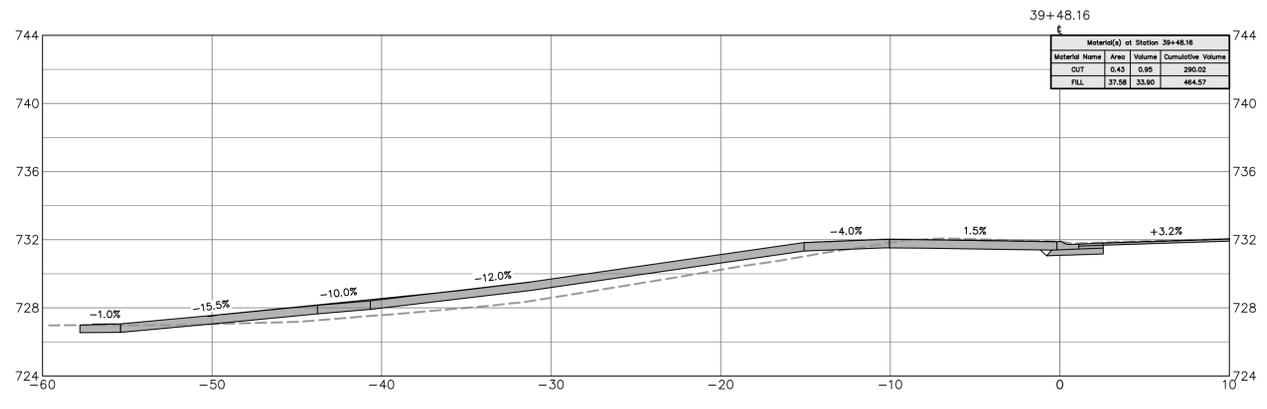
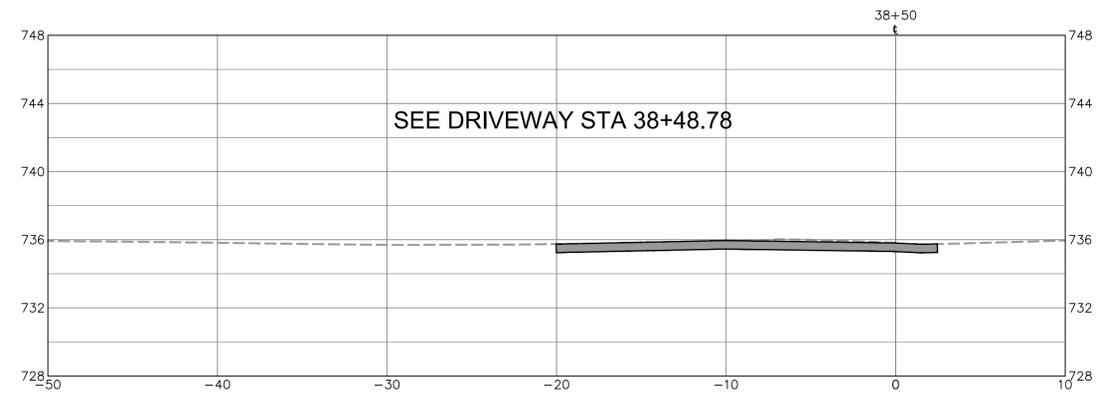
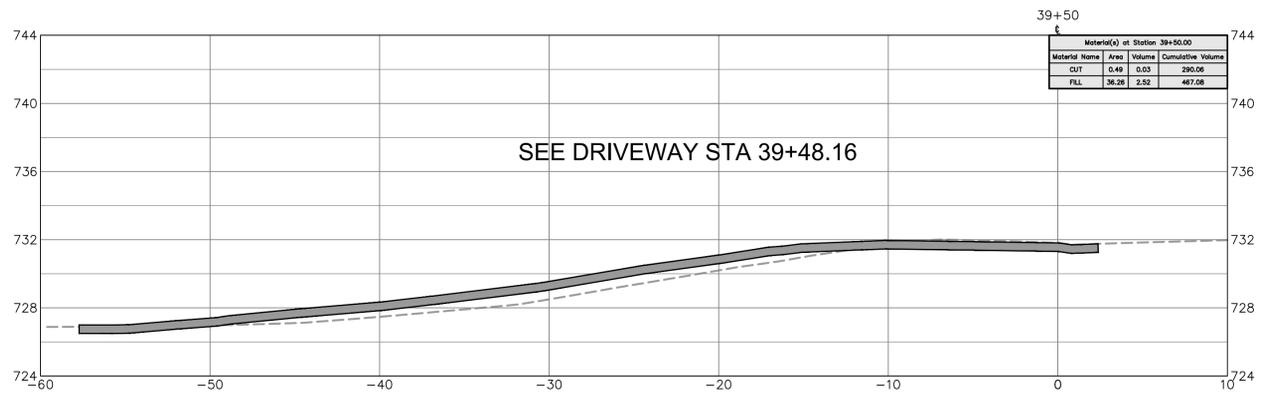
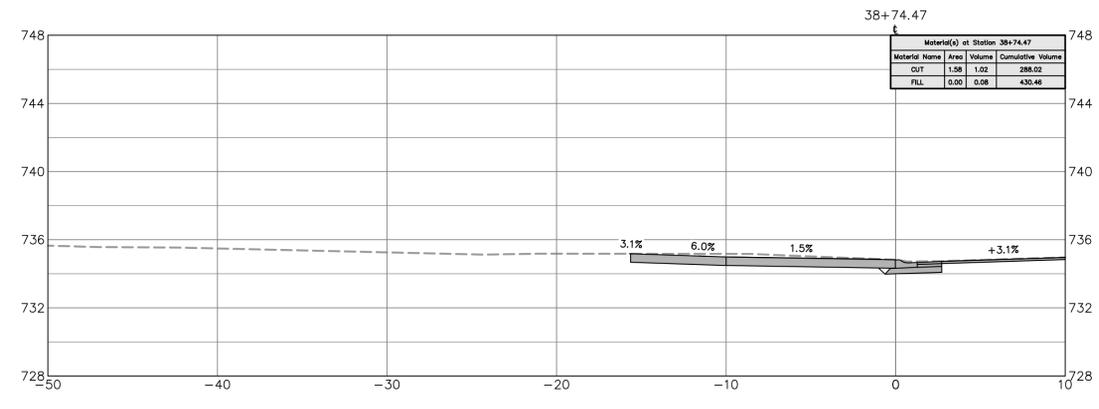
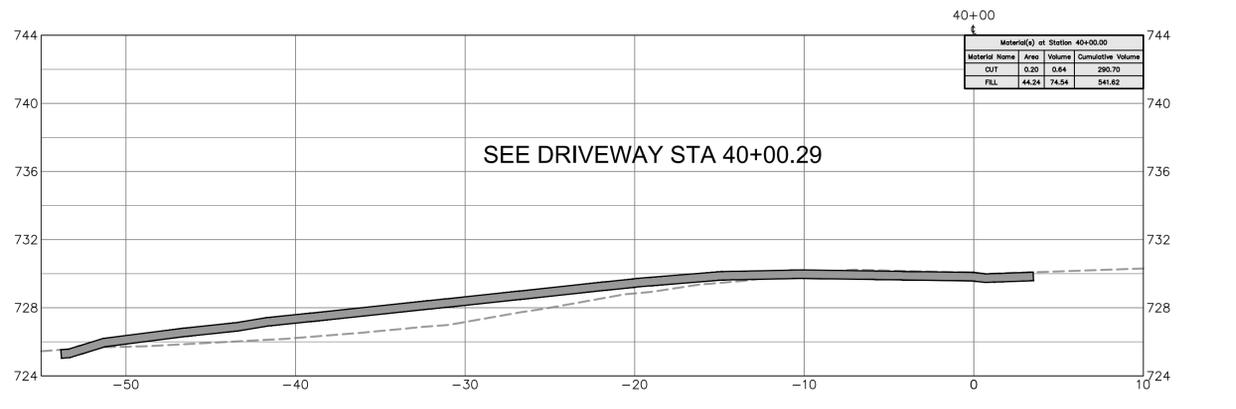
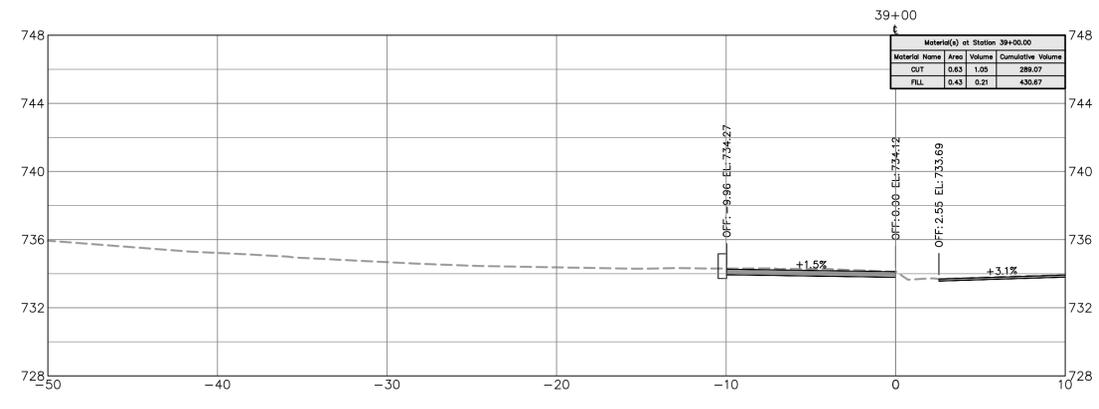
1"=5' SCALE	ARM CHECKED BY	10-25-2024 DATE
PME5211694 JOB NO.	EAC PREPARED BY	BST APPROVED BY

**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET
X13
OF
X15

Plotted By: Rowles, Denny Sheet: Sect-Monroe Road MUP Layout: X14 October 25, 2024 11:03:12am K:\CHL_PRA\015016 City of Charlotte\04_CADD\PlanSheets\0120-CROSS SECTIONS.dwg



NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



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NO.	DATE	BY	DESCRIPTION



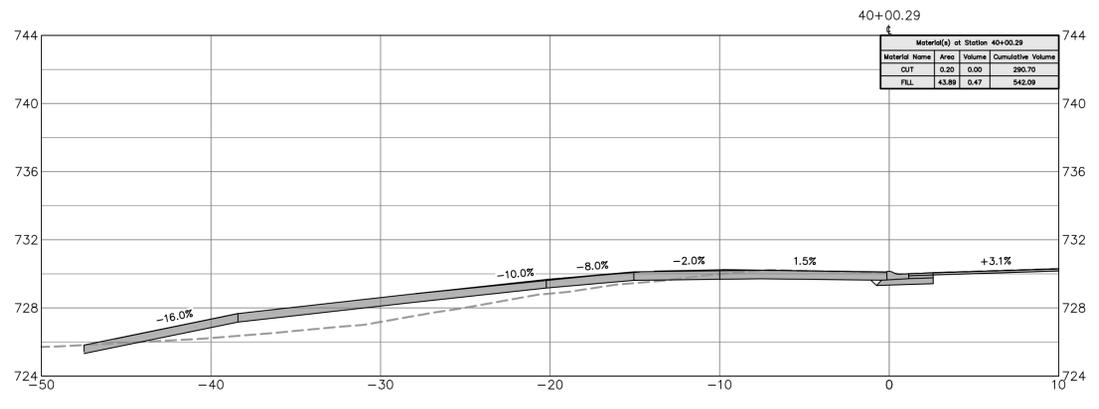
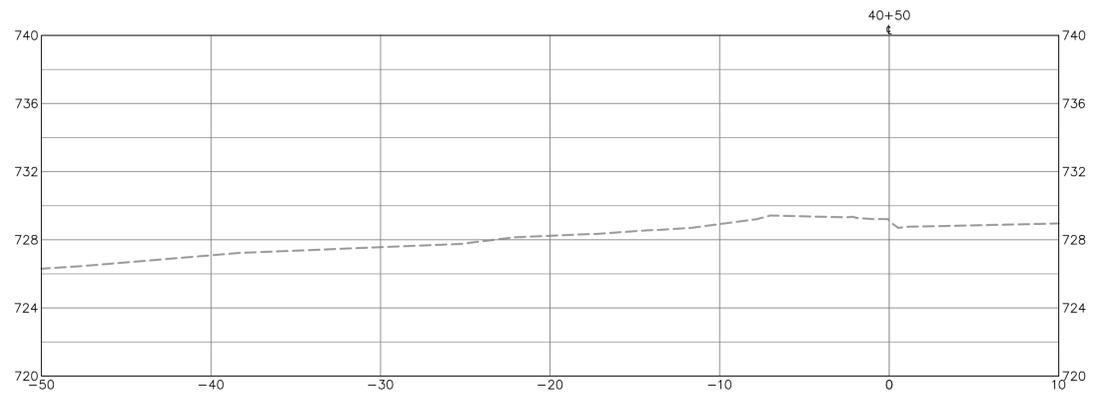
1"=5' SCALE	ARM CHECKED BY	10-25-2024 DATE
PMES211694 JOB NO.	EAC PREPARED BY	BST APPROVED BY

**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET **X14** OF **X15**

Plotted By:Rovelo, Donny Sheet: Set:Monroe Road MUP Layout: X15 October 25, 2024 11:03:15am K:\CHL_PR\1015016 City of Charlotte\241_South_Pedestrian_(Monroe Rd MUP)\04_CADD\PlanSheets\0120-CROSS SECTIONS.dwg



NOTE: PATCHING AND LEVELING MAY BE REQUIRED PRIOR TO RESURFACING THE ROADWAY.



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NO.	DATE	BY	DESCRIPTION



PME5211694 JOB NO.	1"=5' SCALE
EAC PREPARED BY	ARM CHECKED BY
BST APPROVED BY	10-25-2024 DATE

**MONROE ROAD
MULTI-USE PATH**

CROSS SECTIONS

SHEET
X15
OF
X15