ZONING SUMMARY

ZONING DISTRICT: RB REGIONAL BUSINESS DISTRICT						
ZONING REGULATION	REQUIRED	PROVIDED				
FRONT YARD SETBACK (MAX)	75 FT.	51.81 FT.				
SIDE STREET SETBACK (MAX)	20 FT.	20 FT.				
SIDE INTERIOR SETBACK (WEST)	0 FT.	190.35 FT.				
REAR YARD SETBACK	15 FT.	132.93 FT.				
MAX. BUILDING HEIGHT	<45 FT.	24.82 FT.				

MARKET ST. 7-ELEVEN

PARKING SUMMARY

(DIMENSIONS		SPACES		
ТҮРЕ	REQUIRED	PROVIDED	MAX ALLOWED	PROVIDED	
STANDARD SPACE	9′ x 18′	9′ x 19′		16	
STANDARD SI ACE	9′ × 18′	9′ × 20′		17	
STANDARD ACCESSIBLE SPACE $oldsymbol{*}$	9' x 20'	11′ × 20′		1	
VAN ACCESSIBLE SPACE	(9' x 20') + 5'	11' x 20' + 5'		1	
TOTAL SPACES		•	. 36	35	

*DENOTES ADA/FEDERAL REQUIREMENTS EXCLUSIVE OF REQUIRED VAN SPACES

PARKING REQUIREMENT CALCULATIONS:						
USE ORDINANCE REQUIREMENT VARIABLE CALCULATION RESULTS						
GENERAL RETAIL	1 SPACE PER EVERY 300 G.F.A.	4,598 G.F.A.	4,598 G.F.A. /300 G.F.A.	16 SPACES		
RESTAURANT (INDOOR)	1 SPACE PER EVERY 2.5 SEATS	16 SEATS (192 G.F.A.)	16 SEATS /2.5 SEATS	7 SPACES		
RESTAURANT (OUTDOOR)	1 SPACE PER EVERY 2.5 SEATS	32 SEATS	32 SEATS /2.5 SEATS	13 SPACES		
MAXIMUM ALLOWED: 36 SPACES						

ADDITIONAL PARKING REQUIREMENT CALCULATIONS:						
	1	-				
LICE	ORDINANCE					
USE		VARIABLE	L CALCULATION	RESULTS		

	REQUIREMENT		VARIABLE	CALCULATION	RESULTS
	BICYCLE 5 (MIN) MOTORCYCLE/MOPED 1 SPACE PER EVERY 25 STD SPACES		N/A	N/A	5 SPACES
			33 STD SPACES	33 STD SPACES /25 SPACES	2 SPACES
	ELECTRIC VEHICLE	4% OF STD SPACES	33 STD SPACES	0.04x33 STD SPACES	1 SPACE
	THE SITE PLAN PROVIDES AT LEAST THE MINIMUM NUMBER OF SPACES OF EACH TYPE.				

STORM WATER MANAGEMENT AND WATER QUALITY IMPACTS

THE PROPOSED DEVELOPMENT WILL RESULT IN A TOTAL AREA OF 1.44 ACRES OF IMPERVIOUS SURFACE, INCLUDING THE EXISTING ROAD ON THE NORTH SIDE OF THE SITE. THIS IS LESS THAN WAS ASSUMED IN THE DESIGN OF THE STORM WATER MASTER PLAN. NO ADDITIONAL ON-SITE STORM WATER MITIGATION IS PROPOSED.

SANITARY SEWER DEMANDS

BASED ON THE NORTH CAROLINA AVERAGE WASTEWATER DESIGN FLOW RATES, THE PROPOSED DAILY SANITARY SEWER FLOW RATE FROM THE CONVENIENCE STORE WAS CALCULATED TO BE 2,875 GPD (1.75 GPM). THESE CALCULATIONS ARE AS FOLLOWS:

60GAL/100S.F. = 60 X 4790 / 100 = 2,875 GPD PEAK FLOW 2,875 G.P.D./1440 MIN. = 2.00 GPM PEAK FLOW

FIRE FLOW DEMAND

PER NC BUILDING CODE THE REQUIRED FIRE FLOW FOR TYPE IIB CONSTRUCTION LESS THAN 5,000 SF IS 1,500 GPM.

TOPOGRAPHICAL SURVEY

EXISTING CONDITIONS INFORMATION SHOWN HEREON FOR AREAS WITHIN THE LIMITS OF DEVELOPMENT WERE PERFORMED BY SURVEY MATTERS IN DEC OF 2021. SURVEY COORDINATES ARE TIED TO THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NAD83 (2011)/ NAVD 88. TOPOGRAPHICAL INFORMATION HEREON FOR AREA OUTSIDE THE LIMITS OF DEVELOPMENT ARE FROM NEW HANOVER COUNTY GIS AND EXISTING RECORD DRAWINGS.

NORTH CAROLINA 811

CALL NORTH CAROLINA, "ONE CALL" AT 811 OR (1-800-632-4949) TWO (2) DAYS PRIOR TO ANY DIGGING. NOTE:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR CONTACTING NORTH CAROLINA MISS UTILITY PRIOR TO ANY DEMOLITION OR CONSTRUCTION BEGINS.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES, VAULTS, UNDERGROUND STRUCTURES, ETC. BEFORE DEMOLITION OR CONSTRUCTION BEGINS. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR / REPLACE ANY DAMAGED UTILITIES, STRUCTURES, DURING DEMOLITION AND CONSTRUCTION.

SURVEY DATUM

NORTH AMERICAN DATUM 83 (NAD-83) NORTH AMERICAN VERTICAL DATUM 88 (NAVD-88)

FLOODPLAIN

THE PROPERTY SHOWN HEREON IS WITHIN ZONE "X" (MINIMAL FLOOD RISK). THE SITE IS SHOWN ON THE FOLLOWING FEMA FLOOD INSURANCE RATE MAP:

COMMUNITY: <u>NEW HANOVER COUNTY</u>

NUMBER: 370168; PANEL: 3138; SUFFIX: K MAP NO. 3720313800K (EFFECTIVE 08/28/2013).

WETLAND AND CAMA AREAS OF ENVIRONMENTAL INTEREST

THERE ARE NO WETLANDS BEING IMPACTED ON THIS SITE AND NO CAMA AREAS OF ENVIRONMENTAL INTEREST ON THIS SITE. THE CAMA LAND USE CLASSIFICATION IS URBAN. SURFACE WATERS

THERE ARE NO SURFACE WATERS ON THIS SITE.

"SITE & UTILITY PLAN" CITY OF WILMINGTON NEW HANOVER COUNTY, NORTH CAROLINA

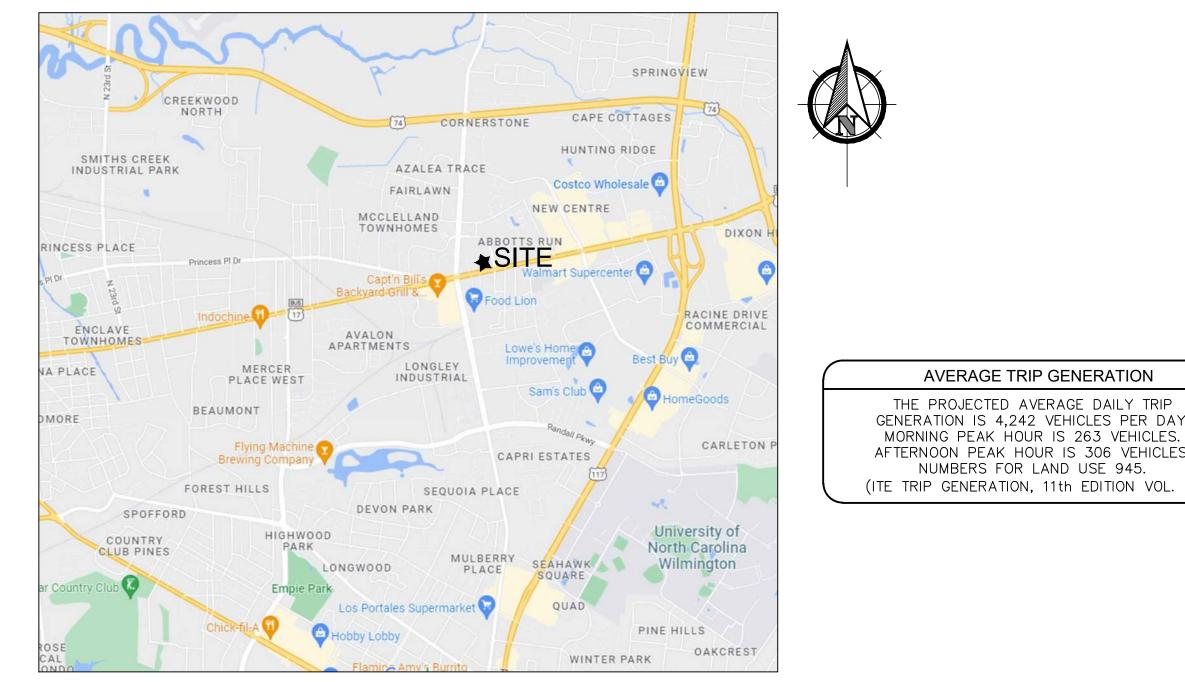
WATER - PUBI .5" DOMESTIC WATER METER (5/8" IRRIGATION METER AND E 12"x6" FIRE WATER TAPPING S 6" FIRE WATER GATE VALVE 6" DI FIRE WL

<u>GAS</u> PIEDMONT NATURAL GAS 420 PIEDMONT ROW DRIVE CHARLOTTE, NC 28210 877-279-3636

WATER & SEWER CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 910-332-6560

TELEPHONE BELL SOUTH/ AT&T 888-764-2500

BUILDING CODE OFFICIAL NEW HANOVER COUNTY 230 GOVERNMENT CENTER DRIVE SUITE 170 WILMINGTON, NC 28403 910-798-7308



SITE LOCATION MAP ~ SCALE: 1"=2000"

BLIC		WATER - PRIVATE		SANITARY - PRIVA	ATE	EROSION CONT	ROL
(REUSE) BOX SLEEVE 2	1 EA. 1 EA. 2 EA. 26 L.F.	2" DOMESTIC WATER R.P.Z. B.F.P.1 EA.WITH HOTBOX5/8" IRRIGATION WATER R.P.Z. B.F.P.1 EA.WITH HOTBOX6" DI FIRE WL180 L.F.6" REDUCED PRESSURE DETECTOR ASS'Y 1 EA.FIRE HYDRANT WITH GATE VALVE2 EA.6" x6" TEE2 EA.6" PLUG1 EA.	2 EA. 2 EA.	6" PVC SDR-35 4" PVC SDR-35 CLEANOUTS 48" MONITORING MANHOLE GB-250 GREASE TRAP	12 L.F. 195 L.F. 3 EA. 1 EA. 1 EA.	CONSTRUCTION ENTRANCE SILT FENCE CULVERT INLET SEDIMENT TRAP INLET PROTECTION TREE PROTECTION SAFETY FENCE SEDIMENT SKIMMER BASIN STONE OUTLET	1 EA. 681 L.F. 1 EA. 20 EA. 13 EA. 255 L.F. 278 C.Y. 11 C.Y.
			1 EA. 4 EA.	SANITARY - PUBLIC		TEMPORARY SEEDING PERMANENT SEEDING	3,250 S.F.
		(6" PVC SDR-35 CLEANOUT	35 L.F. 1 EA.	39,639.6 S.F.		

APPROXIMATE QUANTITIES LIST THESE APPROXIMATE QUANTITIES PROVIDED ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL NOT UTILIZE QUANTITIES SHOWN FOR BIDDING PURPOSES.

CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES SHOWN ON THESE PLANS. ELECTRIC

DUKE ENERGY, INC. DUKE ENERGY PROGRESS 410 S. WILMINGTON STREET RALEIGH, NC 27601 800-636-0581

DEPT. OF PUBLIC SERVICES CITY OF WILMINGTON PUBLIC SERVICES 209 COLEMAN DRIVE WILMINGTON, NC 28412 910-343-4777

DEPT. OF PLANNING

CITY OF WILMINGTON 102 NORTH THIRD STREET WILMINGTON, NC 28402 CONTACT: BRIAN CHAMBERS 910-342-2782

<u>N.C.D.O.T.</u>

1 SOUTH WILMINGTON STREET RALEIGH, NC 27601 CONTACT: CHAD KIMES 910-341-2000

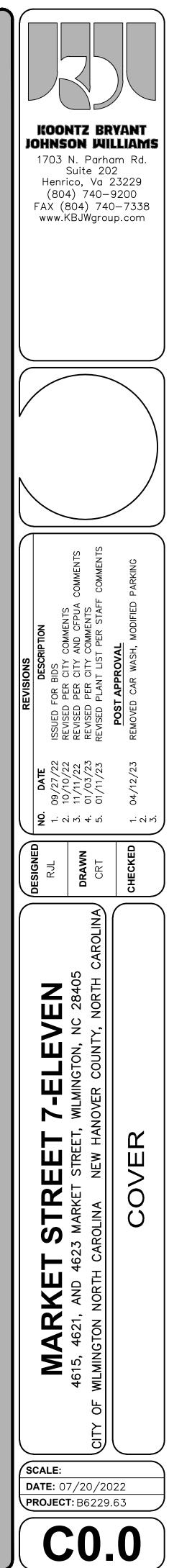
ONSITE TABULA	TIONS				
EXISTING CONDITIONS:			PROPOSED CONDITION	NS:	
ITEM:	<u>AREA (SF)</u>	<u>% USE</u>	ITEM:	<u>AREA (SF)</u>	<u>% USE</u>
IMPERVIOUS			IMPERVIOUS		
BUILDINGS	0	0.0%	BUILDINGS	4,790	4.1%
ASPHALT, GRAVEL	28,731	24.3%	ASPHALT	40,083	33.9%
CONCRETE	1,482	1.2%	CONCRETE	17,642	15.0%
SUB-TOTAL	30,213	25.5%	SUB-TOTAL	62,515	52. 8%
PERVIOUS			PERVIOUS		
OPEN SPACE	88,127	74.5%	OPEN SPACE	55,825	47.2%
TOTAL	118,340	100.0%	TOTAL	118,340	100.0%

SITE DATA		
OWNER/DEVELOPER:	ENCORE – BIRCHWOOD, LLC 1646 W SNOW AVE. #63 TAMPA, FL 33606 CONTACT: PATRICK BUDRONIS PH (813) 495–6536 EMAIL: PBUDRONIS@ENCORE–RE.COM	
ENGINEER:	KOONTZ BRYANT JOHNSON WILLIAMS, INC 1703 NORTH PARHAM ROAD, SUITE 202 HENRICO, VIRGINIA 23229 CONTACT: MARK WILLIAMS PH (804) 200–1937 ~ FAX (804) 740–7338	KOONTZ BRYANT JOHNSON WILLIAMS
SURVEYOR:	SURVEY MATTERS 107 HILLCREST AVENUE SIMPSONVILLE, SC 29861 CONTACT: NICK MANSFIELD, PLS PH (864) 451–0176	1703 N. Parham Rd. Suite 202 Henrico, Va 23229 (804) 740-9200 FAX (804) 740-7338
SITE ADDRESS:	4615, 4621, AND 4623 MARKET STREET WILMINGTON, NC 28405	www.KBJŴgroup.com
PROPOSED USE:	7-11 CONVENIENCE STORE WITH GAS	
MAP REFERENCE:	PID NUMBER: R04915-001-005-000, R04915-001-001-000, R04914-003-008-000 LATITUDE, LONGITUDE (APPROXIMATE PARCEL CENTER): 34.2436°, -77.8878° HYDROLOGIC UNIT CODE: 030300070808 UNIT NAME: SMITH CREEK RECEIVING WATER BODIES:CAPE FEAR	
UTILITIES:	ALL UTILITIES SHALL BE LOCATED UNDERGROUND	
DRAINAGE:	CURB & GUTTER	
PARCEL ZONING:	RB (REGIONAL BUSINESS)	
PARCEL AREA:	±2.72 ACRES	
DISTURBED AREA:	±2.43 ACRES	
BUILDING SQ. FT.	4,790 SQ. FT. (CONVENIENCE STORE)	
BUILDING STORIES:	1 STORY	
BUILDING HEIGHT:	24'-10"	
CONSTRUCTION TYPE:	II-B NOT SPRINKLERED	
SOIL TYPE:	ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE THE SOIL TYPES ON SITE INCLUDE: Le-LEON SAND, 0 TO 2 PERCENT SLOPES. Se-SEAGATE FINE SAND, 0 TO 2 PERCENT SLOPES. Ur-URBAN LAND.	COMMENTS



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	C1.2	EXISTING CONDITIONS
	C1.3	DEMOLITION PLAN
	C2.1	SITE PLAN
	C3.1	UTILITY PLAN
	C4.1	GRADING AND DRAINAGE PLAN
	C4.2	GRADING DETAILS
	C4.3	GRADING DETAILS
	C4.4	GRADING DETAILS
	C4.5	GRADING DETAILS
	C5.1	E&S PHASE I
	C5.2	E&S PHASE II
	C5.3	E&S NOTES AND DETAILS & NARRATIVE
	C5.4	E&S NOTES AND DETAILS
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	C6.1	PROFILES - STORM
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	C7.1	
		CALCS – STORM SEWER
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		DETAILS – SITE
	C9.3	DETAILS – SITE
-		DETAILS - WATER
		DETAILS - WATER
-	- C9.6	DETAILS – SANITARY
	C10.1	SIGHT DISTANCE TRIANGLES
	C10.2	TRAFFIC CONTROL PLAN
		TRAFFIC CONTROL DETAILS
	L1.1	LIGHTING PLAN
	L1.2	LIGHTING DETAILS
	L2.1	LANDSCAPE PLAN
	L2.2	LANDSCAPE PLAN



	ROAD AND DRAINAGE			CURB AND GUTTER
	CULVERT OR STORM SEWER	=		CURB & GUTTER
	EXISTING STORM SEWER	-		EX. CURB & GUTTER
	DROP INLET (WITH STRUCTURE NO.)	- - -		STANDARD CG-2 EX. STANDARD CG-2
D	PROPOSED DRAINAGE MANHOLE			TRANSITION TO DRY CURB
\bigcirc	EXISTING DRAINAGE MANHOLE	Ī		DRY CURB
	PAVED DITCH			
	JUTE MESH OR SODDED DITCH			ENVIRONMENTAL
_> > > >	EARTHEN, GRASSED LINED DITCH			
- — — 105— — —	EXISTING MAJOR CONTOUR			100 YEAR FLOOD PLAIN ELEVATION
102	EXISTING MINOR CONTOUR			WATERS OF THE U.S.
95	PROPOSED MAJOR CONTOUR		<u> </u>	WETLAND
94	PROPOSED MINOR CONTOUR			LIMITS LIMITS OF CLEARING/DISTURBANCE
+ 95.25	EXISTING SPOT ELEVATION			EX TREE LINE
+ 96.75	PROPOSED SPOT ELEVATION		· • • • • • • • • • • • • • •	100 YEAR BACKWATER ELEVATION
+ 96.75 TC	PROPOSED TOP OF CURB ELEVATIO	Ν	LOD	LIMITS OF CONSTRUCTION
	CG-12			
				MISC:
			¢	POWER POLE
	SEWER			

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PLUG
REDUCER

GUY WIRE TRANSFORMER UTILITY VAULT ELECTRICAL BOX ELECTRICAL SWITCH \setminus PANEL BOX ELECTRICAL METER HVAC/AC UNIT BOLLARD CONDUIT BUILDING DOWNSPOUT POLE LIGHT BUILDING LIGHT STREET LIGHT GAS METER GAS VALVE TEST PIT MARKER TEST PIT TAG SATELLITE DISH FLAG POLE STREET SIGN

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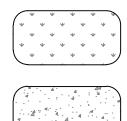
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LIMITS OF WETLANDS DISTURBANCE



GRAVEL PAVEMENT





LIGHT DUTY PAVEMENT

WETLANDS

CONCRETE PADS, SWALK, RAMPS

ABBREVIATIONS

MAIL BOX

AC.	ACRE
CL OR C/L	CENTERLINE
CONC	CONCRETE
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
F/C	FACE OF CURB
FF	FINISH FLOOR
FH	FIRE HYDRANT
GV	GATE VALVE
MFF	MINIMUM FINISH FLOOR
NBP	NO BUILDING PERMIT
PL	PROPERTY LINE
PRV	PRESSURE REGULATOR VALVE
R/W	RIGHT-OF-WAY
SAN SEW	SANITARY SEWER
TC	TOP OF CURB
TYP	TYPICAL
UTIL	UTILITY
W/L	WATERLINE

WATER AND SANITARY NOTES

- 1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE LOCAL UTILITY DEPARTMENT.
- 2. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING N.C.D.O.T. RIGHT OF WAY, UTILITY CONTRACTORS MUST NOTIFY NCDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED.
- 3. ALL WORK SHALL BE SUBJECT TO INSPECTION BY UTILITY DEPARTMENT OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF APPROPRIATE COUNTY OFFICIALS 48 HOURS PRIOR TO START OF WORK.
- 4. THE ENGINEER WILL CERTIFY THAT THE ROADS AND DITCHES ARE WITHIN 6" OF SUBGRADE BEFORE WATER LINE CONSTRUCTION CAN BEGIN.
- 5. THE CONTRACTOR WILL INSTALL ALL WATER SERVICE CONNECTIONS AND METER BOXES.
- 6. CONTRACTOR WILL REFER TO CITY OF WILMINGTON STANDARDS, SEE SHEETS C9.1 AND C9.3 FOR ALL DETAILS AND SPECIFICATIONS. 7. BACKFILL FOR ALL UTILITIES WITHIN PROPOSED STREETS SHALL BE PLACED GENERALLY IN ACCORDANCE WITH THE
- CITY OF WILMINGTON SPECIFICATIONS AND THE FOLLOWING CRITERIA: A. NO TRENCH SHALL BE BACKFILLED UNTIL AUTHORIZED BY THE CITY. MATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO TWELVE INCHES (12") ABOVE THE PIPE SHALL BE SELECT MATERIAL FREE FROM FROST, LARGE CLOGS, STONES AND DEBRIS, AND SHALL BE THOROUGHLY AND CAREFULLY COMPACTED.
- BACKFILL SHALL BE COMPACTED BY MECHANICAL TAMPING THROUGHOUT THE DEPTH OF THE TRENCH TO В. INSURE A SUITABLE SUBBASE ACCEPTABLE TO THE ROAD ENGINEER. THE MATERIAL TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING. IT SHALL BE REMOVED AND AN ACCEPTABLE MATERIAL USED FOR BACKFILLING THE TRENCH.
- 8. A BACKWATER VALVE IS TO BE USED WHERE THE BUILDING HAS A FINISHED FLOOR ELEVATION THAT IS BELOW THE TOP ELEVATION OF THE NEAREST UPGRADE MANHOLE FROM THE BUILDING CONNECTION.
- 9. NO STRUCTURES OR PLANTING OF TREES SHALL BE PERMITTED IN UTILITY EASEMENTS.
- 10. MINIMUM COVER OVER TOP OF WATER PIPE MUST BE 30 INCHES AND A MAXIMUM OF 5 FEET. 11. CONTRACTOR MUST FIELD VERIFY THE INVERTS OF ALL EXISTING MANHOLES, GAS LINES, AND OTHER UTILITY LINES PRIOR TO THE START OF CONSTRUCTION.
- 12. THE CONTRACTORS SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREAS OF
- 13. ALL DAMAGE INCURRED TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

FIRE & LIFE SAFETY NOTES

CONSTRUCTION PRIOR TO STARTING WORK.

1. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FDCs OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL ALWAYS BE MAINTAINED AROUND THE CIRCUMFERENCE OF HYDRANTS AND FDCs. 2. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL

TRAFFIC ENGINEERING NOTES

CIRCUMSTANCES REGARDING THE PROJECT.

- 1. ANY REQUIRED INSTALLATION OR RELOCATION OF TRAFFIC SIGNS/PAVEMENT MARKINGS IS THE RESPONSIBILITY OF THE PROJECT DEVELOPER. PLEASE COORDINATE WITH CITY TRAFFIC SIGNS AND PAVEMENT MARKINGS MANAGER/SUPERVISOR PRIOR TO INSTALLATION/ RELOCATION OF ANY TRAFFIC SIGNS OR MARKINGS IN EXISTING OR PROPOSED PUBLIC ROW.
- 2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 3. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- 4. ALL TRAFFIC CONTROL SIGNALS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 5. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- 6. ANY BROKEN OR MISSING SIDEWALK PANELS, CURBING, AND DRIVEWAY PANELS WILL BE REPLACED.
- 7. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.

NCDOT NOTES

RIGHT-OF-WAY.

- WORK WITHIN DEPARTMENTAL RIGHTS OF WAY REQUIRING LANE OR SHOULDER CLOSURES OR OTHER AFFECTED AREAS WILL REQUIRE STRICT ADHERENCE TO NCDOT SPECIFICATIONS AND STANDARDS.
- 2. SIGNS AND VERTICAL MARKERS (MONUMENTS, DISPLAYS, ETC.) SHALL NOT BE PERMITTED WITHIN NCDOT

CONSTRUCTION NOTES

- 1. ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
- 2. ALL DITCHES/SWALES SHALL BE ROUGHED IN AT THE TIME OF ROAD CONSTRUCTION.
- 3. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.

GENERAL NOTES

- OWNER.

- CAROLINA.

1. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE PROPOSED CONSTRUCTION SITE AND BECOME FAMILIAR WITH ALL EXISTING FEATURES AND UTILITIES AND BASE THE BID PRICE ACCORDINGLY.

2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, AND CONFIRMATION AND CONDITION OF EXISTING GROUND SURFACE AND THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUANTITY AND QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED. ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BROUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.

3. THE CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND, FEDERAL SAFETY REGULATIONS AND PROCEDURES THAT ARE APPLICABLE IN THE CONSTRUCTION OF THE PROPOSED WORK.

4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL PERMITS REQUIRED AT THE CONTRACTOR'S EXPENSE FOR CONSTRUCTION OF THE PROPOSED SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE APPROPRIATE CITY OFFICIALS 48 HOURS PRIOR TO START OF WORK ON THIS PROJECT.

6. ALL CONSTRUCTION MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND ROAD & BRIDGE SPECIFICATIONS EXCEPT WHERE LOCAL STANDARDS ARE APPLICABLE.

7. ALL REQUIRED TRAFFIC CONTROL SIGNS SHALL BE FABRICATED AS SHOWN IN "THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND NORTH CAROLINA SUPPLEMENT THERETO.

8. THE LOCATION OF EXISTING UTILITIES, CONDUITS, OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK AREA NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL STRUCTURES AND UTILITIES (OVERHEAD AND UNDERGROUND) IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION DIFFERS FROM THAT SHOWN ON THE PLAN AND APPEARS TO BE IN CONFLICT WITH PROPOSED WORK. THE CONTRACTOR SHALL CONTACT "NC 811" AT 1-800-632-4949 OR 811 PRIOR TO CONSTRUCTION.

9. DAMAGE TO UTILITIES (ABOVE AND BELOW GROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO THE

10. ALL DRAINAGE STRUCTURES MAY BE EITHER PRECAST OR CAST-IN-PLACE. SHOP DRAWINGS OF ALL PRECAST STRUCTURES MUST BE SUBMITTED FOR APPROVAL BY ENGINEER.

11. THE CONTRACTOR SHALL COORDINATE THE ABANDONMENT / REMOVAL OF EXISTING TELEPHONE SERVICE AND LOCATION OF NEW TELEPHONE SERVICE WITH THE TELEPHONE UTILITY AND THE OWNER.

12. IF NECESSARY, THE CONTRACTOR SHALL COORDINATE THE ABANDONMENT / REMOVAL OF EXISTING POWER SERVICE AND LOCATION OF NEW POWER SERVICE WITH THE POWER UTILITY AND THE OWNER.

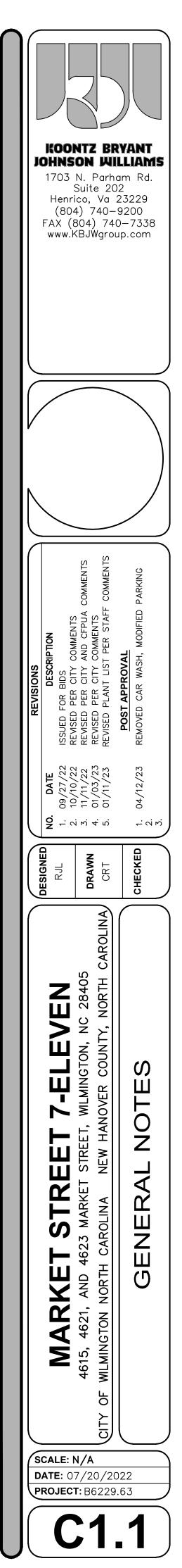
13. IF NECESSARY, THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY LOCAL (CITY) INSPECTORS.

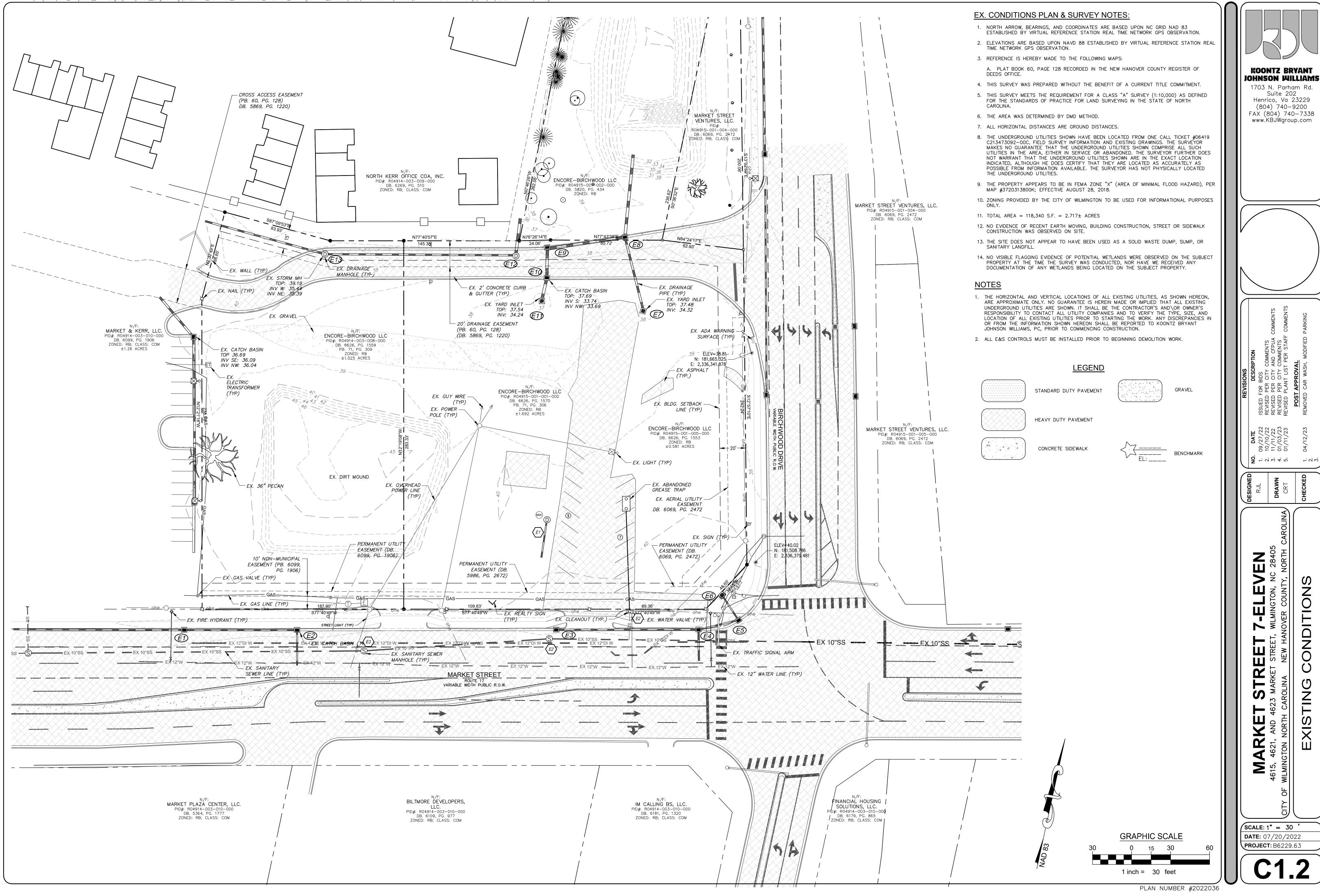
14. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN THE WATERWAYS IN OPERABLE CONDITION.

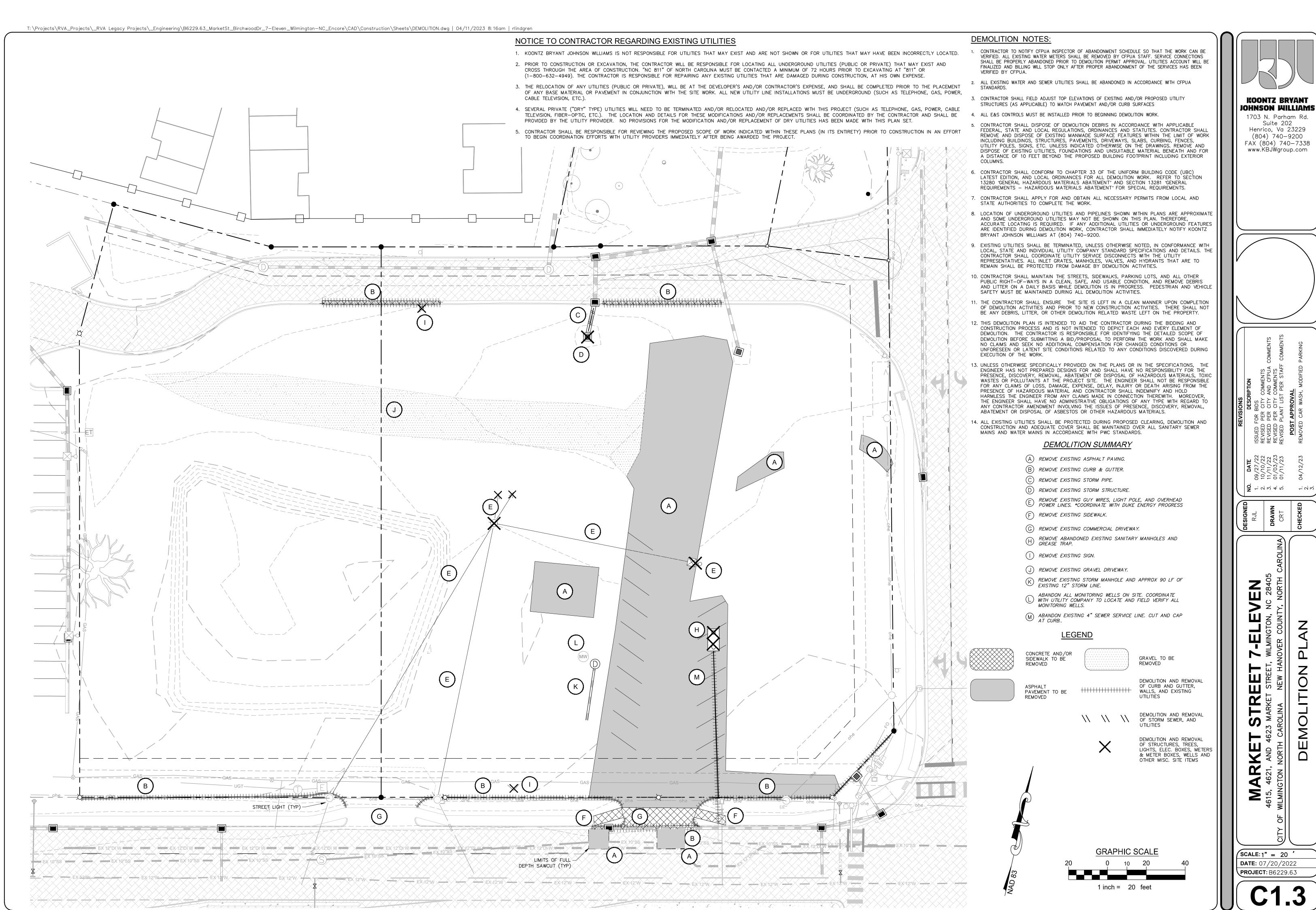
15. THE LOCAL (CITY) ENGINEER MAY REQUIRE ADDITIONAL DRAINAGE AND EROSION CONTROL, IF MEASURES WARRANT. 16. THE APPROVAL OF THIS PLAN SHALL NOT IN ANY WAY GRANT PERMISSION BY THE CITY FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.

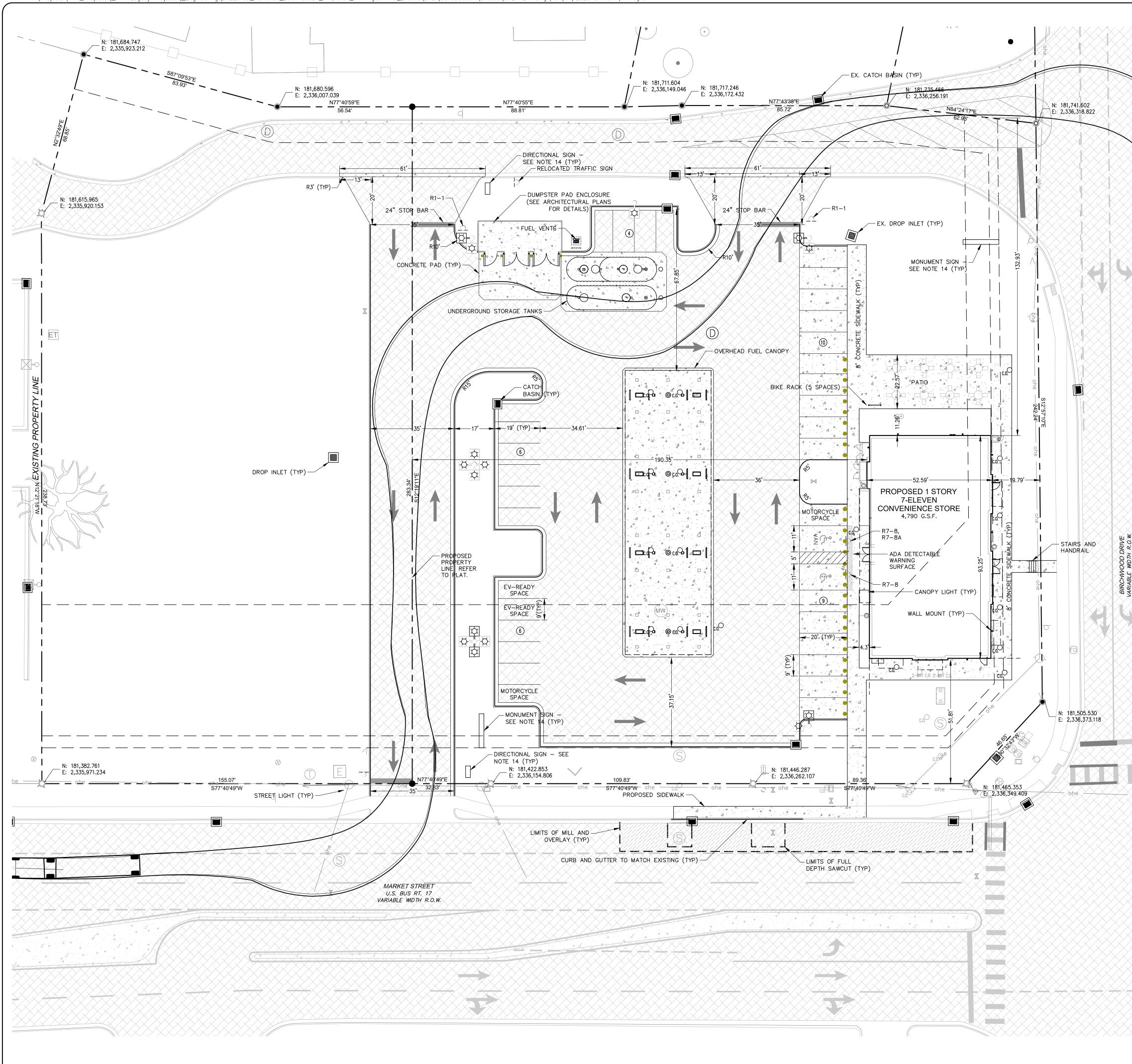
17. CONSTRUCTION STAKING SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF NORTH

18. THE PLANS SHOULD BE FOLLOWED AS APPROVED. KOONTZ BRYANT JOHNSON WILLIAMS, INC. WILL NOT ACCEPT RESPONSIBILITY FOR CHANGES MADE BY OTHERS.









T: \Projects\RVA_Projects_RVA Legacy Projects_Engineering\B6229.63_MarketSt_BirchwoodDr_7-Eleven_Wilmington-NC_Encore\CAD\Construction\Sheets\SITE PLAN.dwg | 04/11/2023 8:16am | rlindgren

<u>NOTES</u>

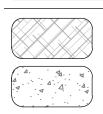
- 1. ALL SIGNS TO BE FURNISHED & INSTALLED BY THE CONTRACTOR.
- 2. ALL PROPOSED SIGNS & SIGN POSTS ARE TO BE INSTALLED PER NCDOT STANDARDS.
- 3. PROPOSED ADDRESS SIGN TYPE, MATERIAL & ADDRESS TO BE DETERMINED, (SUBJECT TO COUNTY APPROVAL).
- 4. ALL RADII ARE MEASURED FROM FACE OF CURB AND ARE 3' UNLESS OTHERWISE SPECIFIED.
- 5. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY A LICENSED
- SURVEYOR IN THE STATE OF NORTH CAROLINA. 6. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO COUNTY STANDARDS.
- EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.
 THE CONTRACTOR MUST FIELD VERIFY THE INVERTS OF ALL EXISTING MANHOLES, GAS LINES, AND OTHER UTILITY LINES PRIOR TO THE START OF CONSTRUCTION.
- 9. THE LOCATION OF EXISTING UTILITIES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK AREA NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL STRUCTURES AND UTILITIES (OVERHEAD AND UNDERGROUND) IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTRACTOR SHALL CALL NORTH CAROLINA 811 TOLL FREE AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION DIFFERS FROM THAT SHOWN ON THE PLAN AND APPEARS TO BE IN CONFLICT WITH PROPOSED WORK.
- 10. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS & DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING: SIDEWALKS, RAMPS, ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE PADS, LOADING AREA, BOLLARDS, ETC. AND TO THE GAS CANOPY AND FUEL PAD. SEE ARCHITECTURAL DRAWINGS FOR SIGNS LABELED D, D1, D2, I1, I2, J1, J2, H, P, F1, F2, A1, C1, AND E.
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL PRIVATE UTILITY CONNECTIONS (ELECTRIC, GAS, CABLE, TELEPHONE, ETC.) AS WELL AS PROVIDING ALL INFRASTRUCTURES REQUIRED BY UTILITY COMPANY
- 12. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND COSTS ASSOCIATED WITH RELOCATING OR TERMINATING EXISTING UNDERGROUND AND/OR OVERHEAD UTILITIES DESIGNATED TO BE RELOCATED OR TERMINATED ON THESE PLANS.
- 13. ALL HVAC AND OTHER EQUIPTMENT WILL BE LOCATED ON THE ROOF OF THE PROPOSED BUILDING AND SCREENED FROM PUBLIC VIEW.
- 14. BUSINESS SIGNAGE TO BE REVIEWED UNDER SEPARATE PERMIT.

SIGN SUMMARY

M.U.T.C.D. LABEL	WIDTH	HEIGHT	TYPE
R1-1	30"	30"	STOP
R7-8	12"	18"	RESERVED PARKING FENALTY S100-\$500 FINE TOW AWAY ZONE
R7-8A	12"	6"	VAN ACCESSIBLE

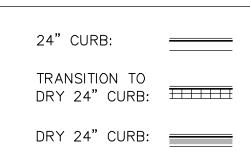
LEGEND

7-11 HEAVY DUTY

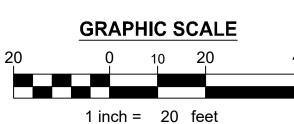


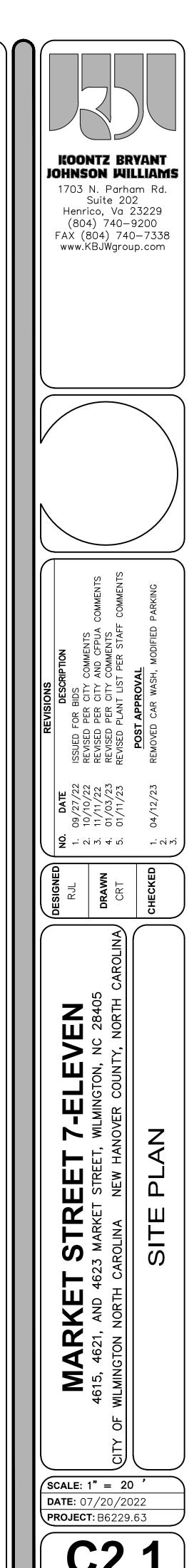
PAVEMENT CONCRETE SIDEWALK/PADS

CURB & GUTTER LEGEND

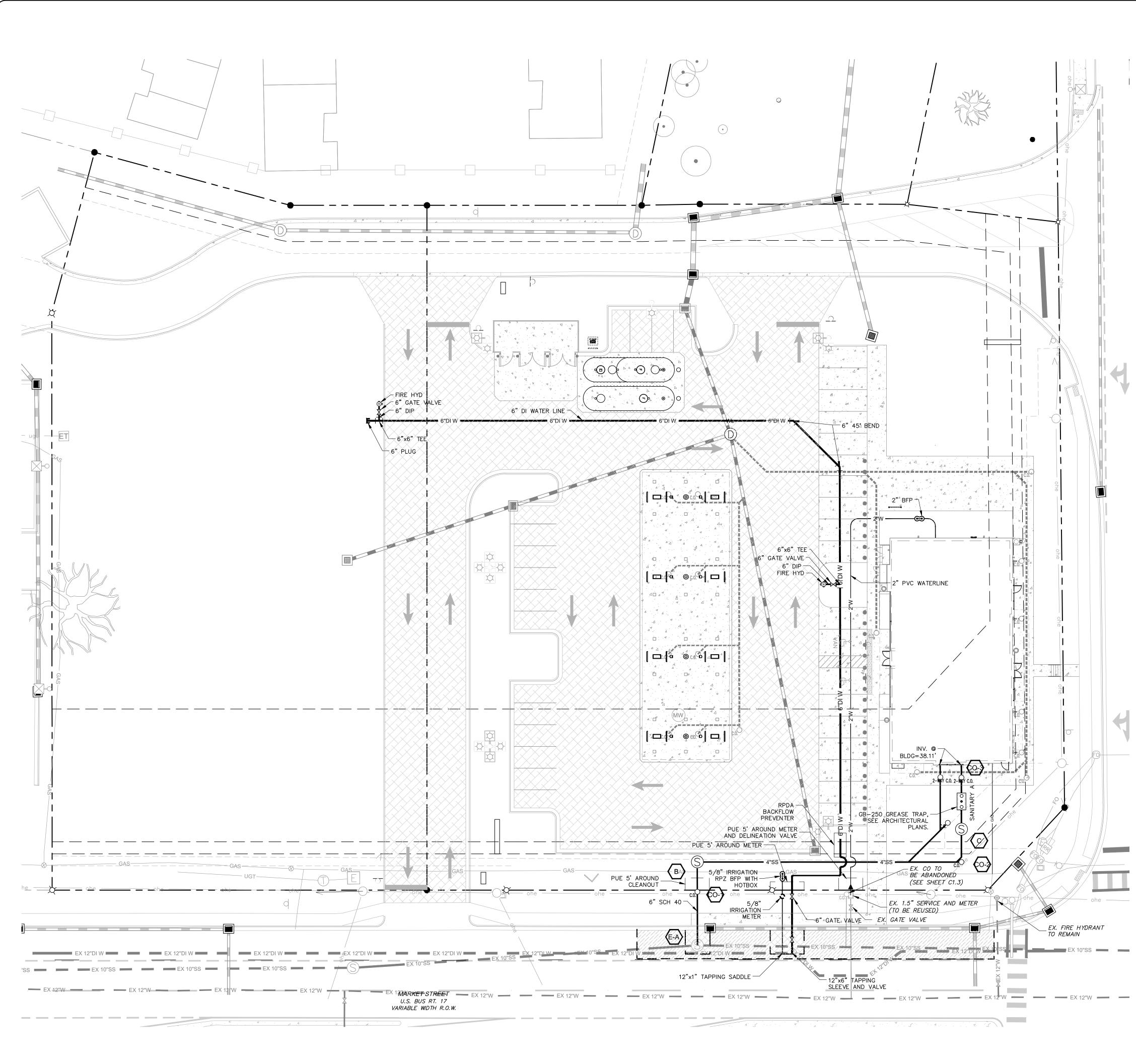






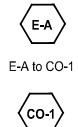


PLAN NUMBER #2022036



SANITARY SEWER DESCRIPTION

NOTE: 1. ALL STRUCTURES WITH A DEPTH OF 4'-0" OR GREATER WILL REQUIRE STEPS, UNLESS OTHERWISE NOTED ON THE PLANS 2. CONTRACTOR IS TO EXERCISE EXTREME CARE IN THE INSTALLATION OF PIPES WITH SHALLOW SLOPES IN ORDER TO PROVIDE POSITIVE GRADE.



E-A	48" SAN MH H=7.17'		TOP=42.16
E-A to CO-1	22.1 L.F. \sim 6.0 inch PVC Pipe INV.(LOWER)=34.99	@ 1.87% INV.(UPPER)=35.41	
CO-1	6" SAN C.O. H=6.92'		TOP=42.33
CO-1 to B	12.4 L.F. \sim 6.0 inch PVC Pipe INV.(LOWER)=35.43	@ 1.35% INV.(UPPER)=35.60	
В	48" SAN MONITORING MANHOLE H=6.52'	:	TOP=42.12
B to CO-2	109.3 L.F. ~ 4.0 inch PVC Pipe INV.(LOWER)=35.60		
CO-2	4" SAN C.O. H=4.09'		TOP=41.83
CO-2 to C	13.6 L.F. ~ 4.0 inch PVC Pipe INV.(LOWER)=37.74	@ 1.25% INV.(UPPER)=37.91	
c	48" SAN MONITORING MANHOL H=3.72'	E	TOP=41.63
C to OWS-A	8.0 L.F. \sim 4.0 inch PVC Pipe (INV.(LOWER)=37.91		
GT			
OWS-B to CO-3	6.3 L.F. ~ 4.0 inch PVC Pipe (INV.(LOWER)=37.99	© 1.00% INV.(UPPER)=38.05	
\frown			

(CO-3)

4" 2-WAY SAN C.O. TOP=41.43 H = 3.38CO-3 to Bldg-A 6.4 L.F. ~ 4.0 inch PVC Pipe @ 0.94% INV.(LOWER)=38.05 INV.(UPPER)=38.11

<u>NOTES</u>

- PROVIDE A MINIMUM OF THREE FEET OF SEPARATION BETWEEN ALL FITTINGS, TAPPING SLEEVE, AND TAPPING SADDLE.
- 2. ALL SALVAGEABLE UTILITY ITEMS ARE TO BE RETURNED TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY AS DETERMINED BY THE UTILITIES INSPECTOR.
- 3. THE CONTRACTOR MUST FIELD VERIFY THE INVERTS OF ALL EXISTING MANHOLES, GAS LINES, AND OTHER UTILITY LINES PRIOR TO THE START OF CONSTRUCTION.

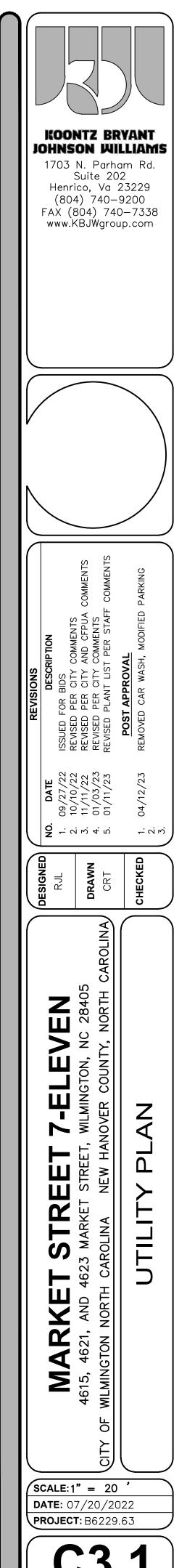
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5. PRIOR TO CONNECTING THE PROPOSED WATER OR SEWER LINES TO THE EXISTING COUNTY SYSTEMS, THE FOLLOWING CRITERIA MUST BE MET: • ALL PUBLIC WATER AND/ORE SEWER LINES MUST EITHER BE LOCATED

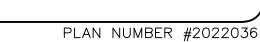
- WITHIN RECORDED WATER OR SEWER EASEMENTS OR WITHIN DEDICATED RIGHTS-OF-WAY.
- ALL WATER AND/OR SEWER LILNE TESTING HAS BEEN COMPLETED AND HAS SUCCESSFULLY PASSED.
 ROADS MUST BE READY FOR FINAL PAVING, WITH ALL CURB & GUTTER AND
- THE SUBBASE INSTALLED. ARCHITECTURAL PLANS FOR GREASE TRAP, OIL/WATER INTERCEPTOR, AND CLAIM PITS.

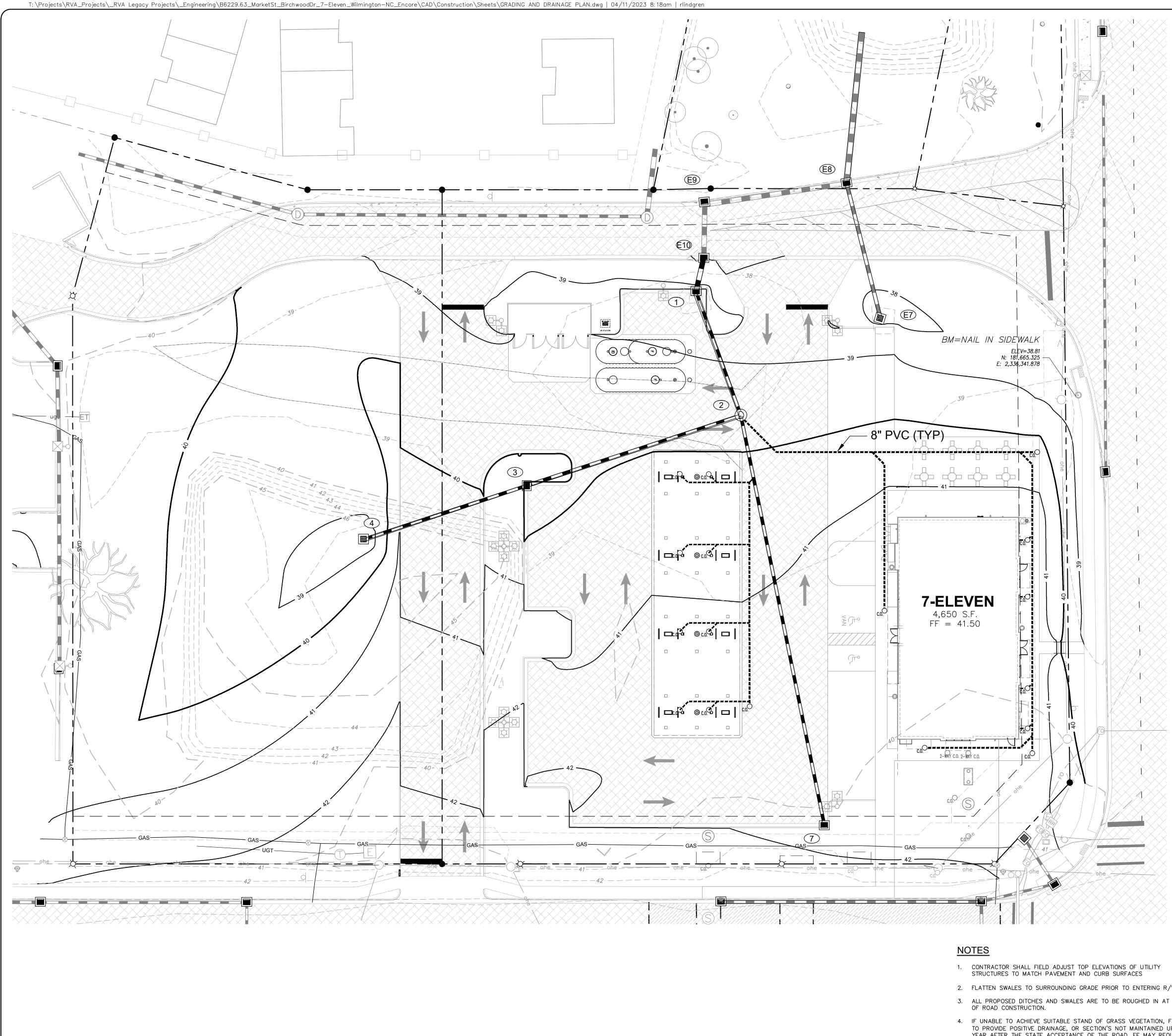
GRAPHIC SCALE

1 inch = 20 feet



	•
6.	SEE REC
	20

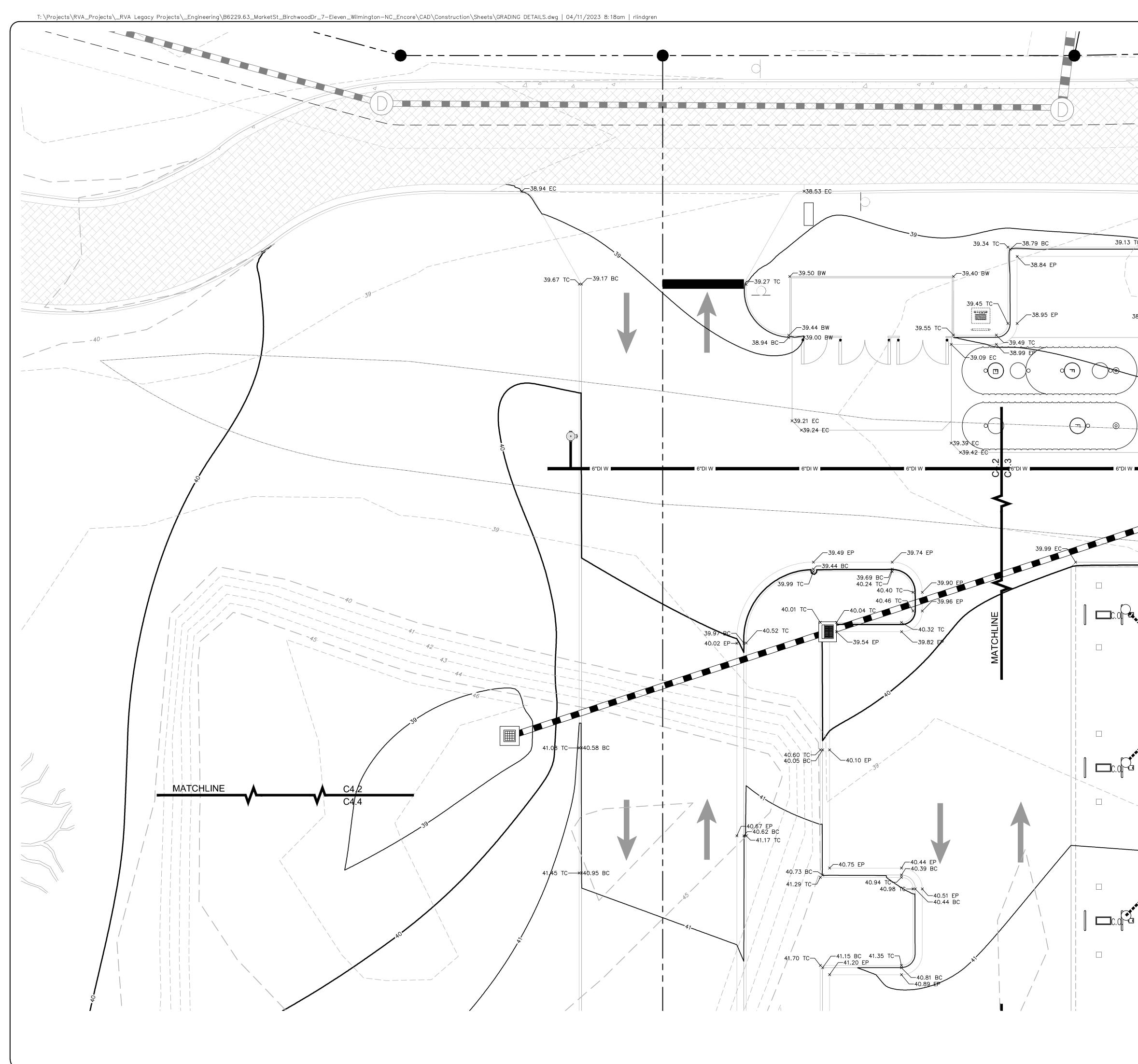


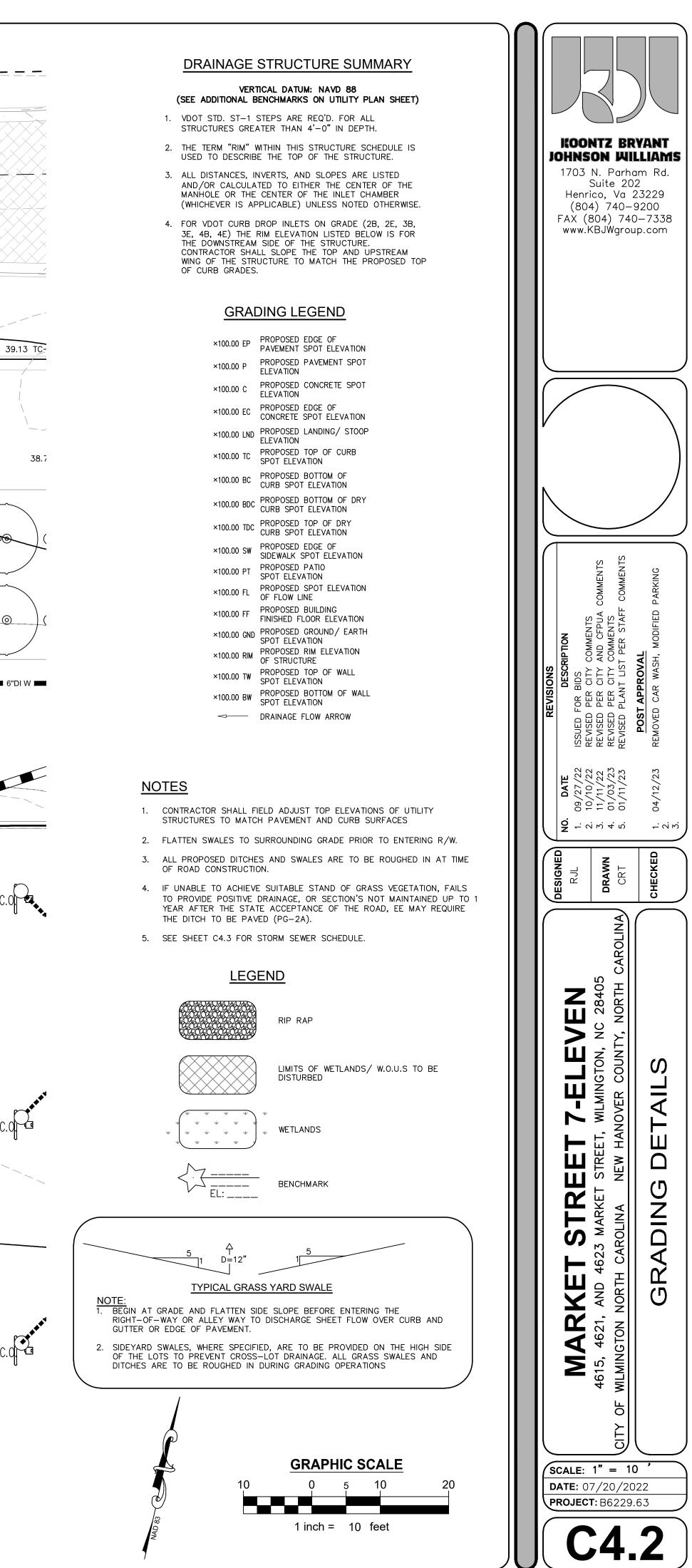


- STRUCTURES TO MATCH PAVEMENT AND CURB SURFACES
- 4. IF UNABLE TO ACHIEVE SUITABLE STAND OF GRASS VEGETATION, FA TO PROVIDE POSITIVE DRAINAGE, OR SECTION'S NOT MAINTAINED UF YEAR AFTER THE STATE ACCEPTANCE OF THE ROAD, EE MAY REQU THE DITCH TO BE PAVED (PG-2A).

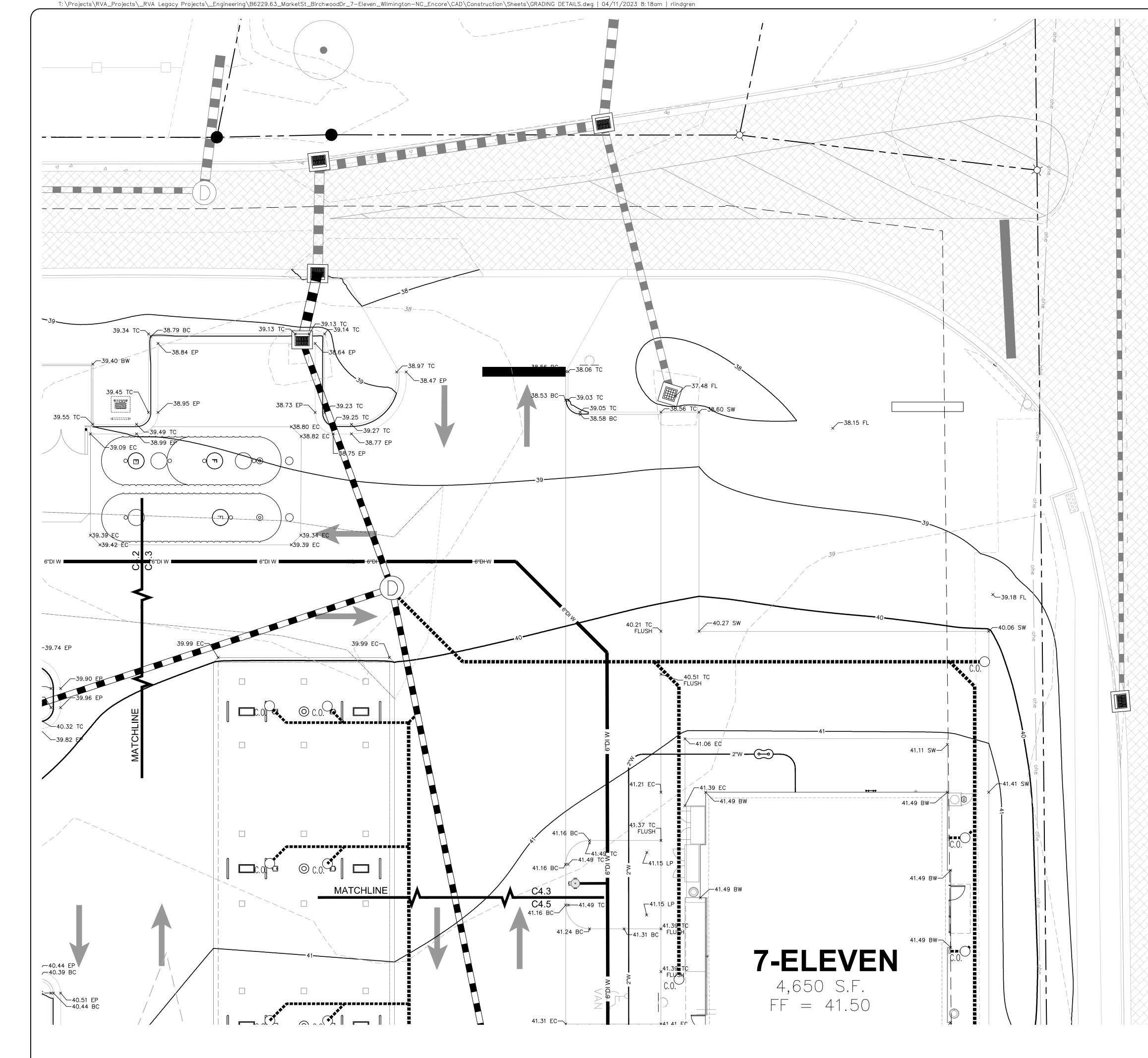
	DRAINAGE STRUCT	URE SUMMARY	
	VERTICAL DATUM: (SEE ADDITIONAL BENCHMARKS	NAVD 88	
to E8	63.76 L.F. ~ 30" RCP @ 0.35% INV.(LOWER)=32.79 IN	V.(UPPER)=33.01	KOONTZ BRYANT JOHNSON WILLIAMS
(E8)	EX CURB INLET H=4.40'	TOP=37.41	1703 N. Parham Rd. Suite 202 Henrico, Va 23229 (804) 740-9200
E8 to E9	60.24 L.F. ~ 24" RCP @ 0.75% INV.(LOWER)=33.10 IN	V.(UPPER)=33.55	FAX (804) 740-9200 FAX (804) 740-7338 www.KBJWgroup.com
E9	EX CURB INLET H=4.00'	TOP=37.55	
E9 to E10	22.13 L.F. ~ 24" RCP @ 0.63% INV.(LOWER)=33.55 IN	V.(UPPER)=33.69	
€10	EX CURB INLET H=4.00'	TOP=37.69	
E10 to 1	15.83 L.F. ~ 24" CL-III RCP @ 0. INV.(LOWER)=33.79 IN	51% V.(UPPER)=33.87	
	NCDOT STD. CATCH BASIN H=4.72'	TOP=38.59	
1 to 2	54.67 L.F. ~ 18" CL-III RCP @ 0.5 INV.(LOWER)=34.07 INV	59% V.(UPPER)=34.39	
2	STD. MANHOLE H=5.21'	TOP=39.60	PROVINCE NTS
2 to 3	94.50 L.F. ~ 18" CL-III RCP @ 0.5 INV.(LOWER)=34.64 IN'	54% V.(UPPER)=35.15	TS DUA COMME TS TAFF COMM
3	NCDOT STD. CATCH BASIN H=4.30'	TOP=39.45	IONS DESCRIPTION BIDS CITY COMMEN CITY COMMEN CITY COMMEN CITY COMMEN CITY COMMEN CITY COMMEN CITY COMMEN
3 to 4	72.41 L.F. ~ 15" CL-III RCP @ 0.4 INV.(LOWER)=35.25 IN	53% V.(UPPER)=35.64	REVISIONS BESCRIPTION DESCRIPTION ISSUED FOR BIDS REVISED PER CITY AND CFPUA COMMENTS REVISED PER CITY COMMENTS REVISED PER FOR COMMENTS REVISED PER
4	NCDOT STD. DROP INLET H=2.79'	TOP=38.43	
2 to 7	175.31 L.F. ~ 15" CL-III RCP @ 1. INV.(LOWER)=34.64 IN	85% √.(UPPER)=37.88	DESIGNED NO. DATE RJL 1. 09/27/22 RJL 1. 09/27/22 DRAWN 3. 11/11/22 CRT 5. 01/11/23 CHECKED 1. 04/12/23 2. 1. 04/12/23 2. 2. 01/01/22 3. 1. 04/12/23 2. 2. 01/11/23 2. 2. 01/11/23 3. 1. 04/12/23 3. 2. 01/11/23 3. 3. 2.
7	NCDOT STD. CATCH BASIN H=3.32'	TOP=41.20	
E8 to E7	59.23 L.F. ~ 18" RCP @ 2.13% INV.(LOWER)=33.06 IN	V.(UPPER)=34.32	
E7)	EX. DROP INLET H=3.16'	TOP=37.48	
∕w.			MARKET STREET 7-ELEV 4615, 4621, AND 4623 MARKET STREET, WILMINGTON, N 4615, 4621, AND 4623 MARKET STREET, WILMINGTON, N GRADING AND DRAINAGE F
TIME	20	BRAPHIC SCALE 0 10 20 40	SCALE: 1" = 20 '
FAILS JP TO 1 JUIRE			DATE: 07/20/2022 PROJECT: B6229.63
		1 inch = 20 feet	

PLAN NUMBER #2022036

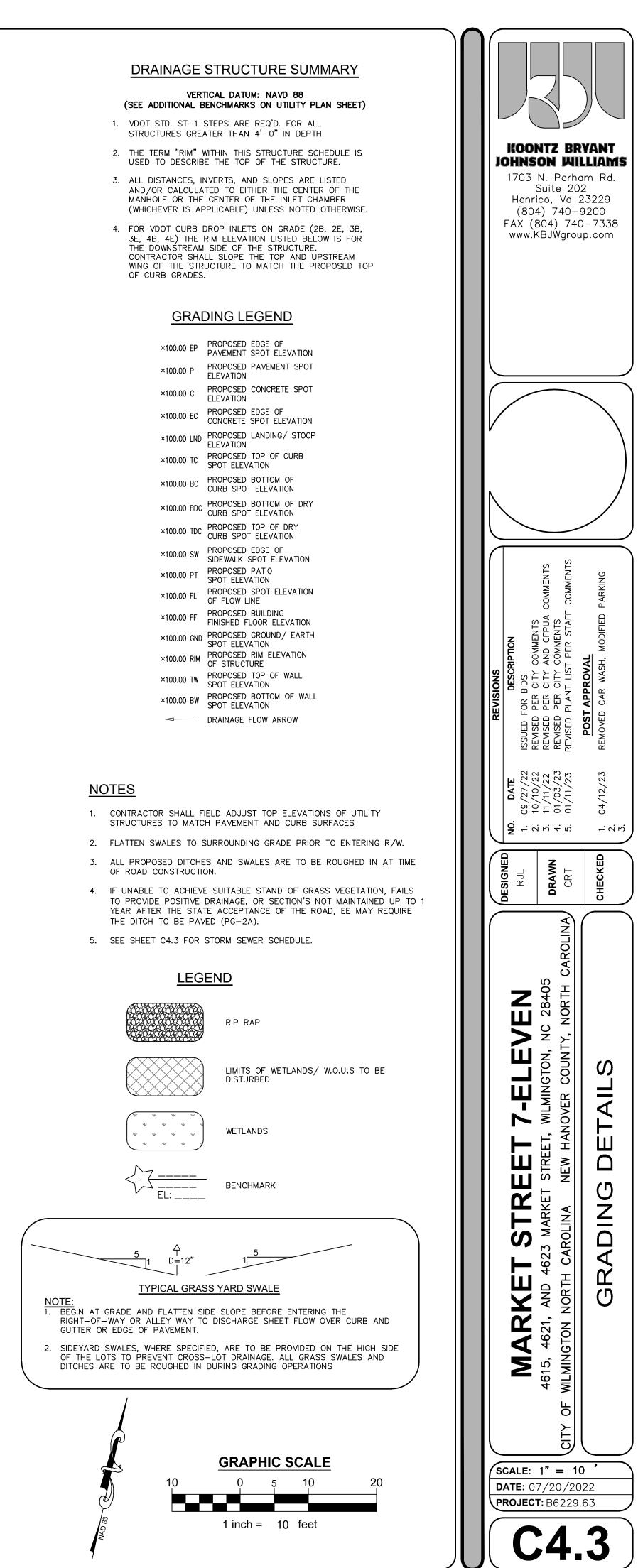




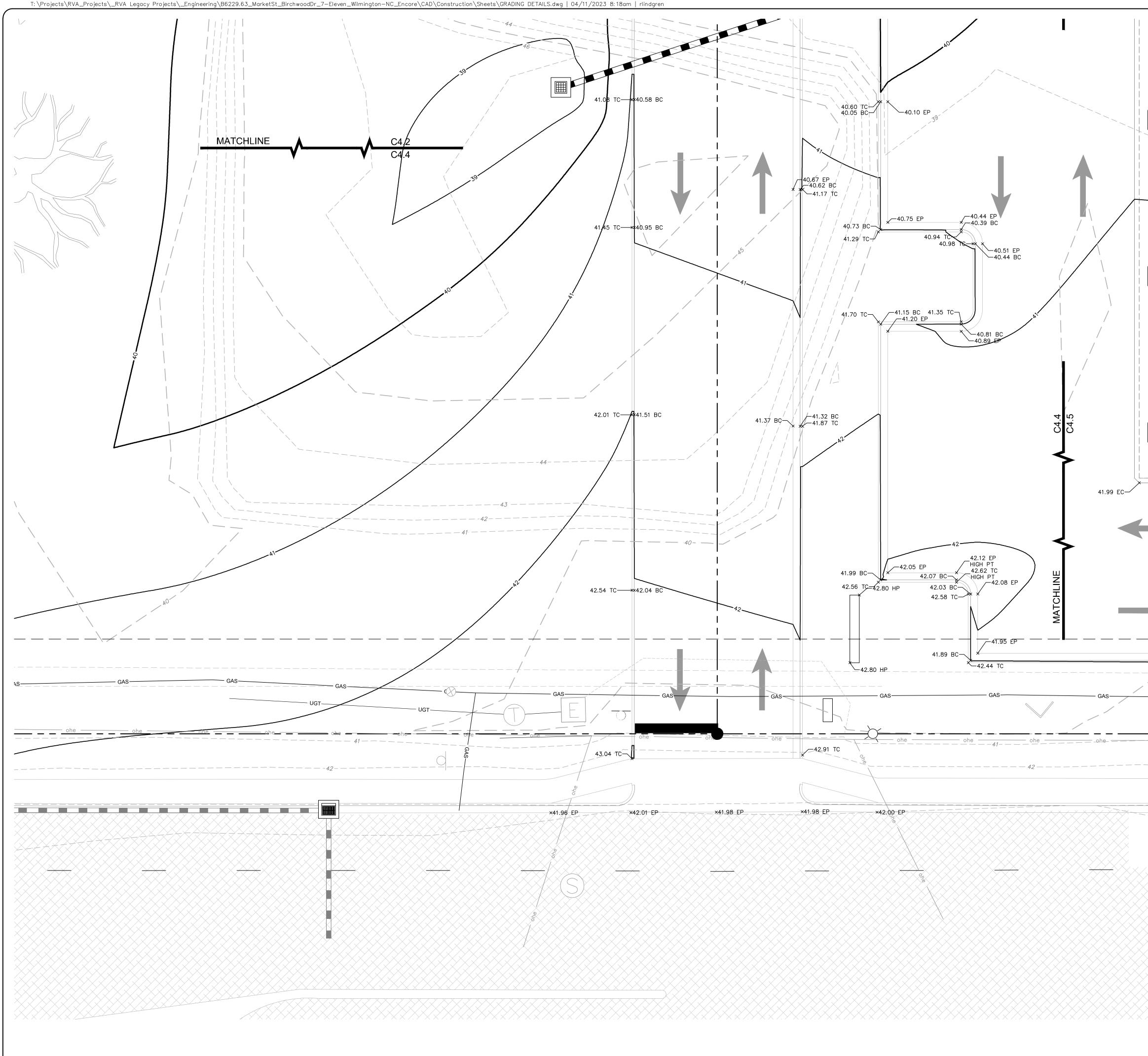
PLAN NUMBER #2022036

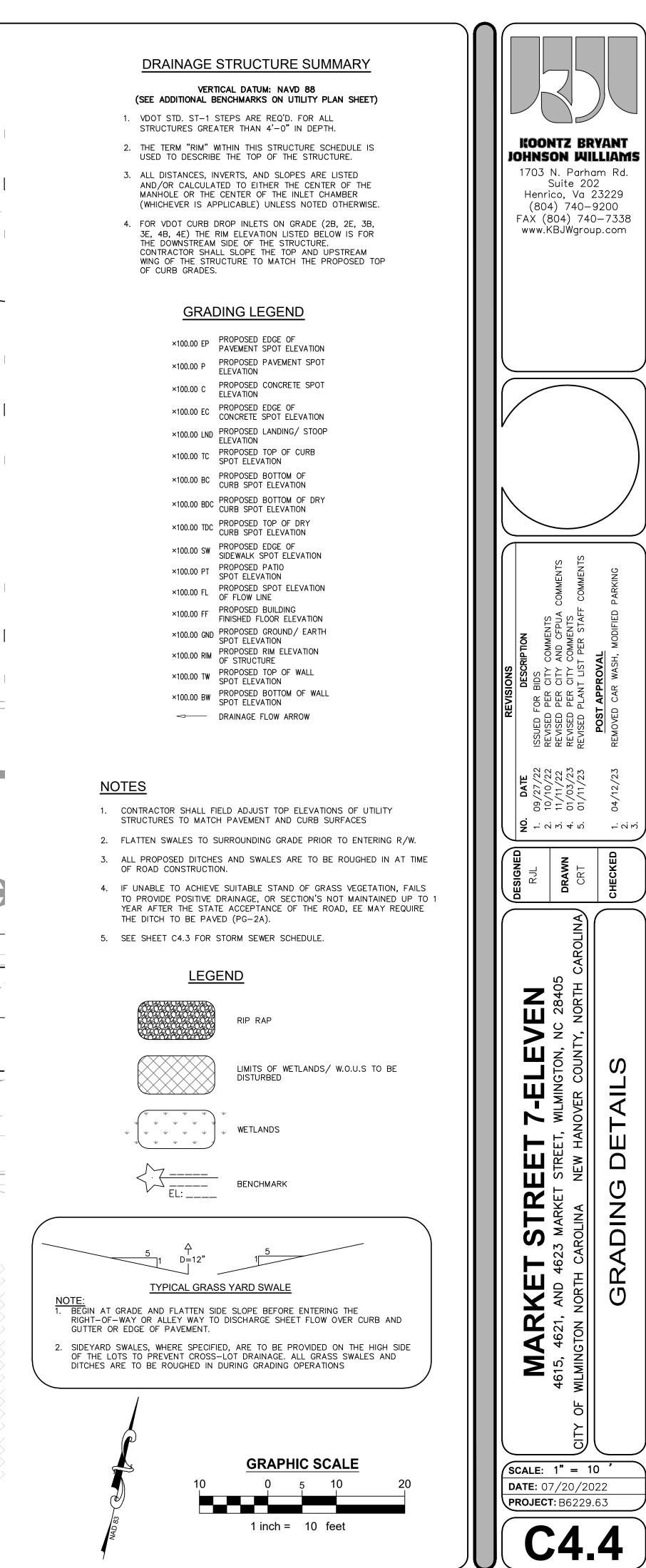




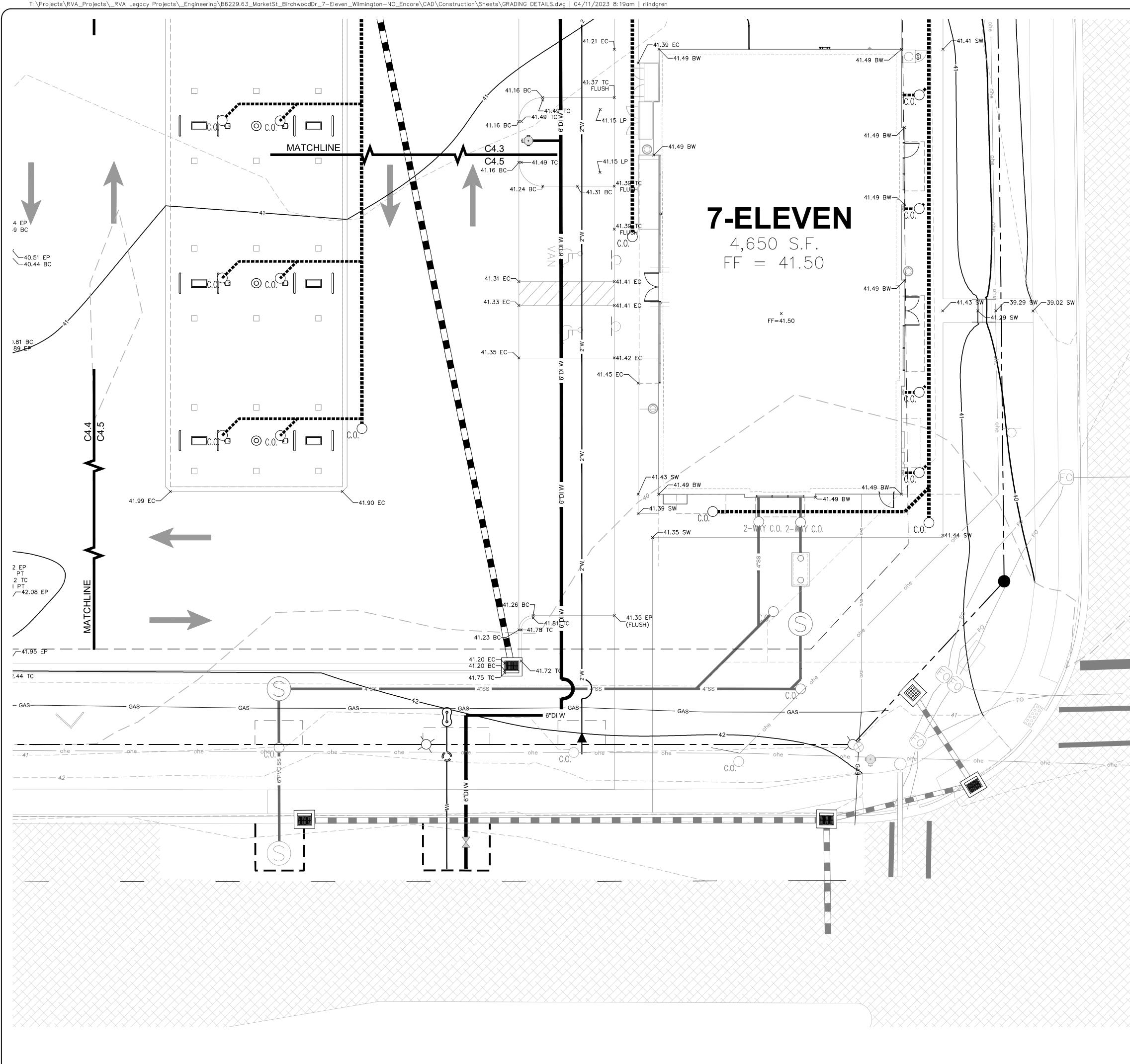


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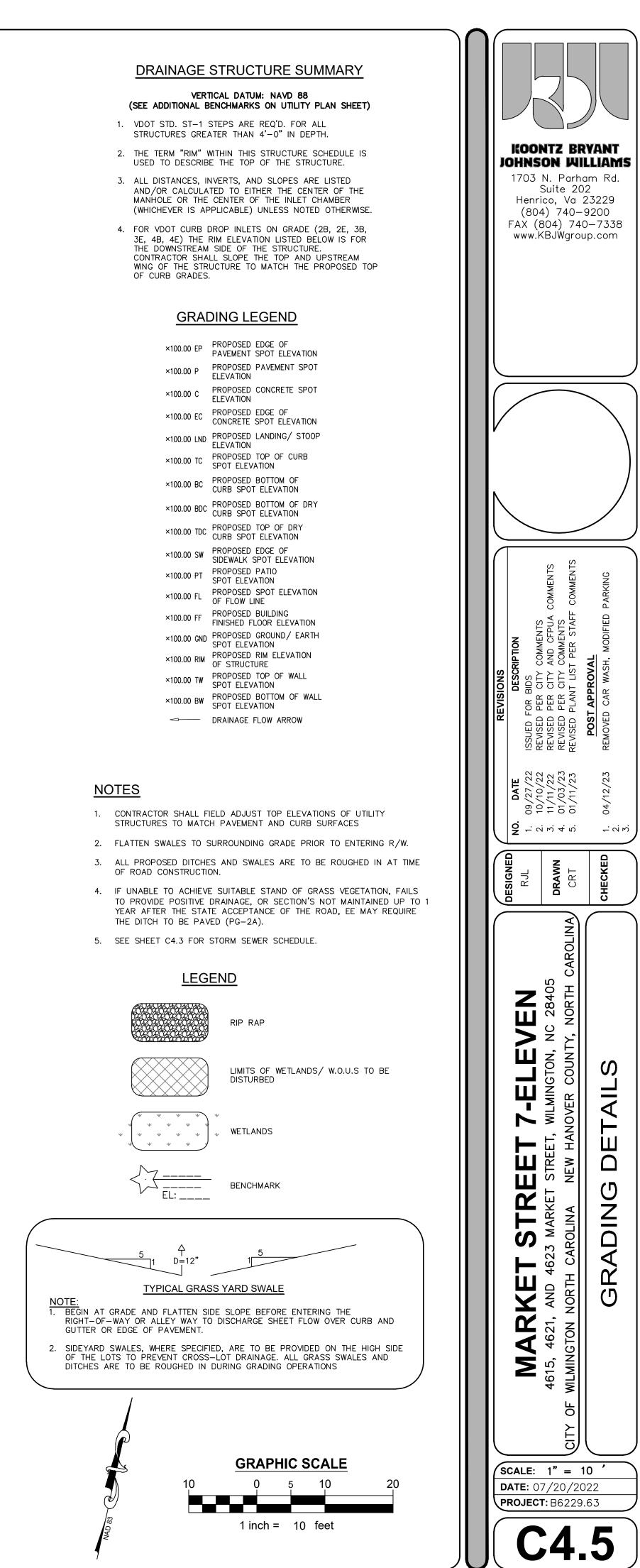




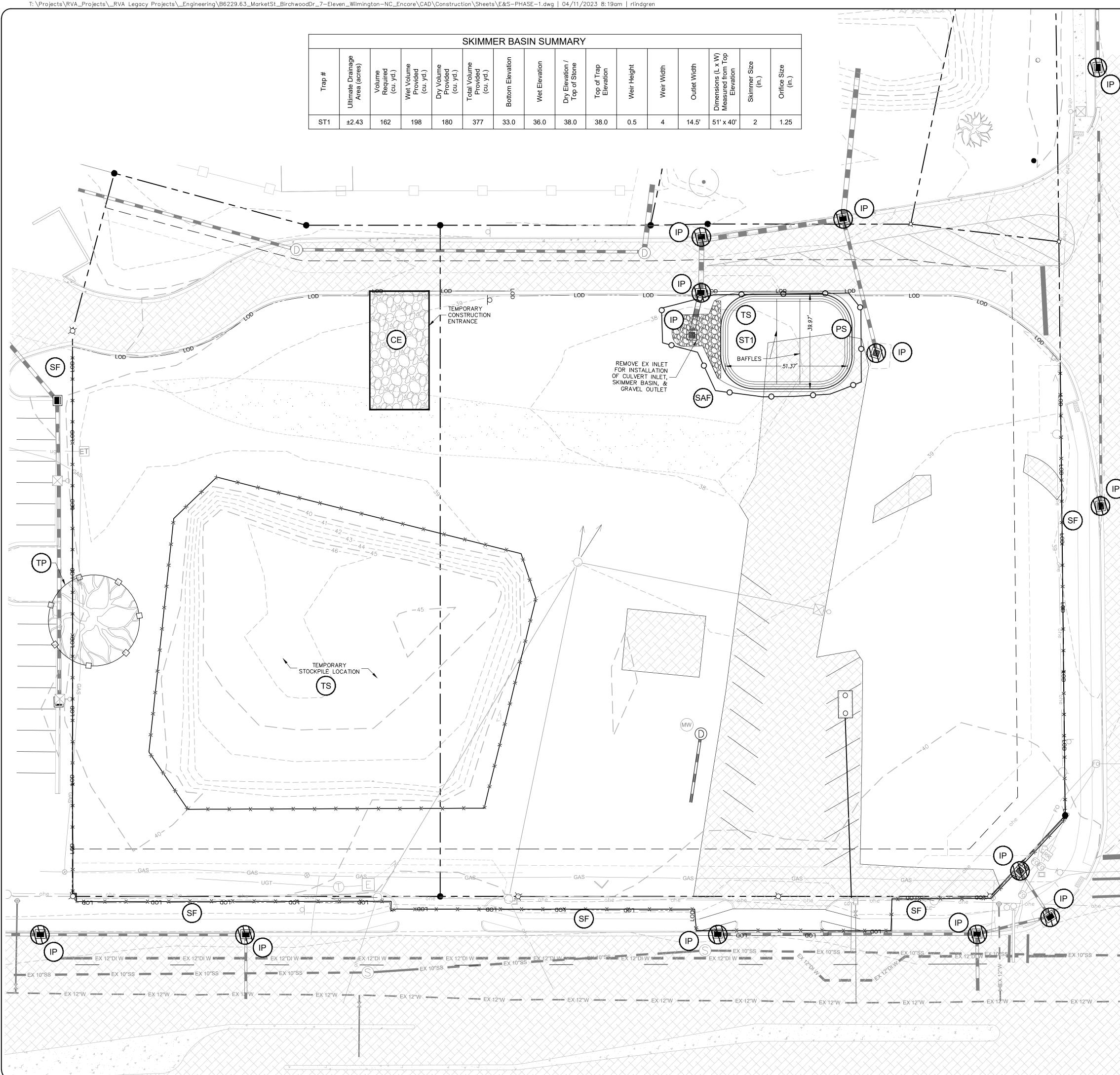
PLAN NUMBER #2022036







PLAN NUMBER #2022036



NOTES

- 1. NO EROSION CONTROL DEVICES SHALL BE REMOVED UNTIL APPROVED BY THE COUNTY ENVIRONMENTAL INSPECTOR.
- 2. THE LOCATION OF EXISTING UTILITIES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL CALL "ONE CALL" AT 811 OR 800-632-4949 PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION DIFFERS FROM THAT SHOWN ON THE PLAN AND APPEARS TO BE IN CONFLICT WITH PROPOSED WORK. CONTRACTOR TO COORDINATE WITH OWNER ABOUT EXISTING UTILITIES TO BE MAINTAINED DURING CONSTRUCTION.
- 3. ALL EXISTING UTILITIES SHALL BE PROTECTED DURING PROPOSED CLEARING, DEMOLITION AND/OR CONSTRUCTION AND ADEQUATE COVER SHALL BE MAINTAINED OVER ALL SANITARY SEWER MAINS AND WATER MAINS IN ACCORDANCE WITH PUA STANDARDS. NO UTILITIES SHALL BE INSTALLED, DEMOLISHED AND/OR ABANDONED WITH THIS PHASE OF THE ESC PLAN.
- 4. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA CONSTRUCTION ENTRANCE ONLY.
- 5. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.

6. REFER TO SHEET C5.3 FOR THE EROSION CONTROL NARRATIVE. 6.1. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

- 7. A THIRD PARTY INSPECTION AND TESTING FIRM SHALL BE ON-SITE THROUGHOUT CONSTRUCTION TO ADEQUATELY MONITOR AND TEST ALL APPROPRIATE SITE RELATED WORK ON THIS PROJECT. ITEMS TO BE MONITORED SHALL INCLUDE, HOWEVER ARE NOT LIMITED TO AREAS TO BE UNDER-CUT, PLACEMENT OF FILL, PROOF-ROLLING, TRENCHING ACTIVITIES AND THE PLACEMENT OF CONCRETE AND ASPHALT. ITEMS TO BE TESTED SHALL INCLUDE, HOWEVER ARE NOT LIMITED TO, CONCRETE SLUMP TESTS, CONCRETE STRENGTH TESTING, AND SOIL AND ASPHALT COMPACTION TESTING.
- 8. ALL ESC MEASURES SHOWN ON THIS PHASE OF THE ESC PLAN MUST BE IN PLACE AND FUNCTIONING IN A MANNER ACCEPTABLE TO THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION OF ADDITIONAL ESC MEASURES.
- 9. ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE THE SOIL TYPES ON SITE INCLUDE: 9.1. Le-LEON SAND, 0 TO 2 PERCENT SLOPES.
- 9.2. Se-SEAGATE FINE SAND, 0 TO 2 PERCENT SLOPES. 9.3. Ur-URBAN LAND.

PHASE 1 LIMITS OF DISTURBANCE = 2.43 ACRES

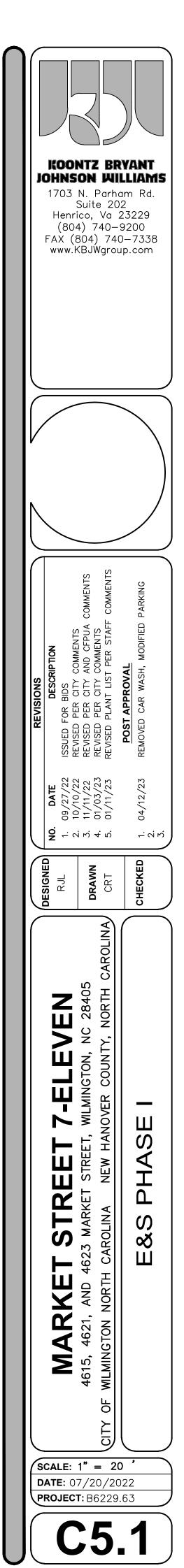
PHASE 1 SEQUENCE OF CONSTRUCTION

- 1. CONDUCT PRE-CONSTRUCTION MEETING WITH THE CITY OF WILMINGTON TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING. CONTACT NCDEQ PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2. INSTALL GRAVEL CONSTRUCTION ENTRANCE. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCE. DURING WET WEATHER CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES SHALL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE EXISTING ROADWAY.
- 3. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL DEVICES.
- 4. PREPARE TEMPORARY PARKING AND STORAGE AREAS.
- 5. CLEAR ONLY TO THE EXTENT NECESSARY TO INSTALL THE SPECIFIED EROSION CONTROL ITEMS. INSTALL ALL SILT FENCE, TREE PROTECTION, INLET PROTECTION, TEMPORARY CULVERT INLET SKIMMER BASIN, AND SAFETY FENCE AS SHOWN ON THE E&S PHASE 1 PLAN. 5.1. REMOVE EXISTING INLET AS SHOWN FOR INSTALLATION OF THE SKIMMER SEDIMENT BASIN.
- 6. THE SKIMMER SEDIMENT BASIN SHALL BE INSTALLED PRIOR TO THE START OF ANY GRUBBING OR GRADING. THE SKIMMER BASIN SHALL BE MADE FUNCTIONAL BEFORE UP SLOPE LAND DISTURBANCE TAKES PLACE, INCLUDING DEMOLITION WORK, EXCEPT AS REQUIRED FOR INSTALLATION OF SKIMMER BASIN.
- 7. UPON COMPLETION OF THE PHASE 1 EROSION CONTROL PLAN. THE CERTIFIED RESPONSIBLE LAND DISTURBER SHALL NOTIFY AND ACCOMPANY THE INSPECTOR ON A SITE WALK-THRU PRIOR TO PROCEEDING WITH PHASE 2 OF THE EROSION CONTROL PLAN.

EROSION CONTROL EROSION CONTROL DEVICES AS PER NORTH CAROLINA ENVIRONMENTAL QUALITY EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL

SAF		SAFETY FENCE
CE		TEMPORARY STONE CONSTRUCTION ENTRANCE
SF	<u> </u>	SILT FENCE
	\bigcirc	STORM DRAIN INLET PROTECTION
ST	ST	SKIMMER SEDIMENT BASIN
OP		STONE OUTLET
ТР		TREE PROTECTION TAPE
TS	CTS	TEMPORARY SEEDING

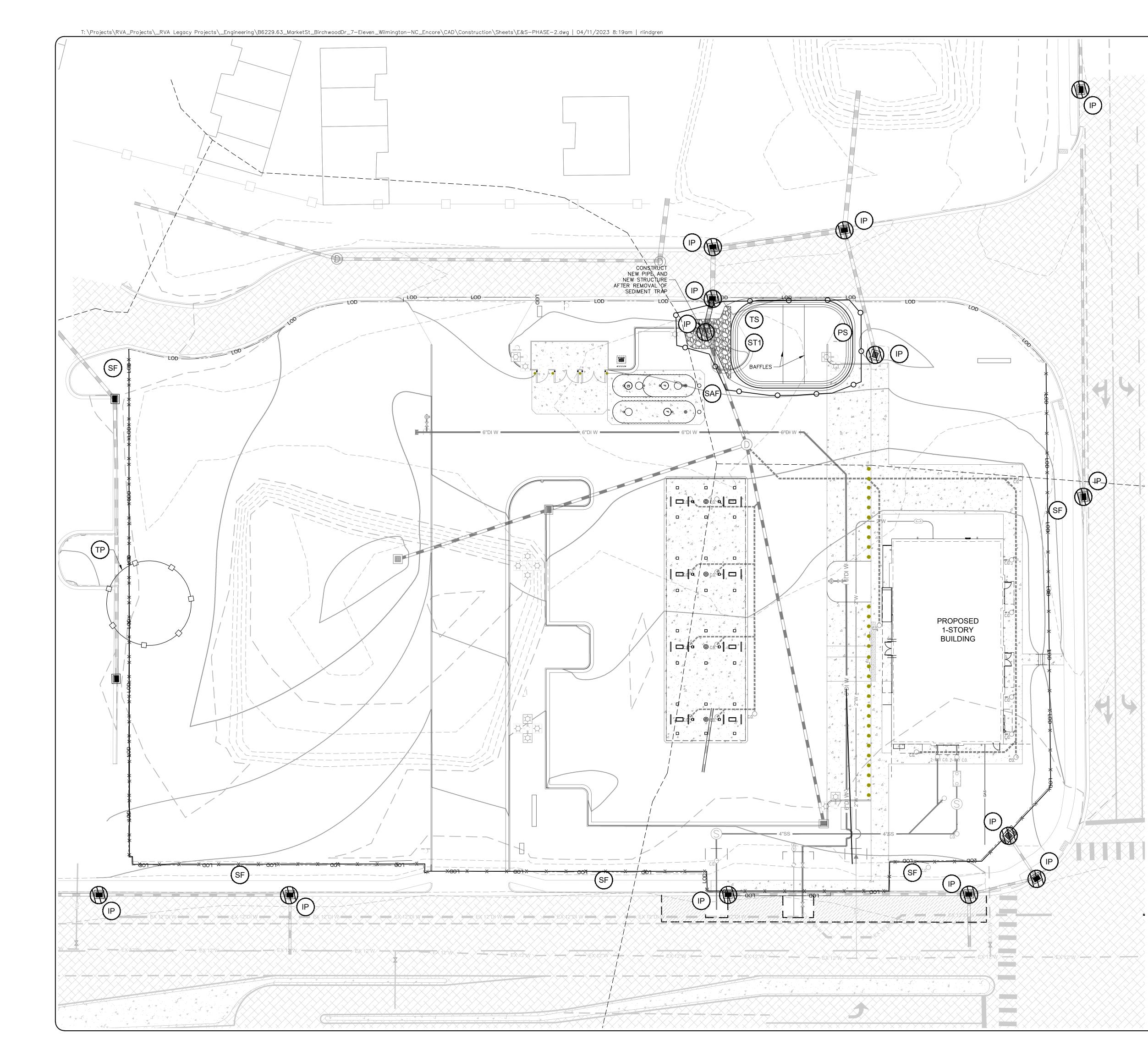




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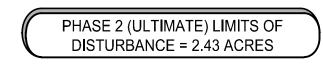
GRAPHIC SCALE

1 inch = 20 feet



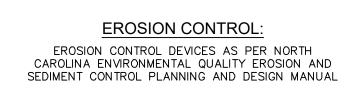
<u>NOTES</u>

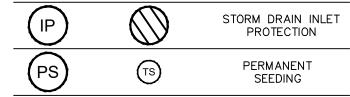
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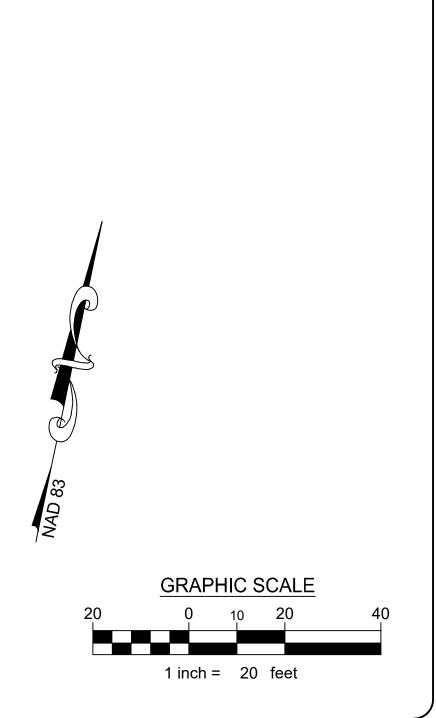


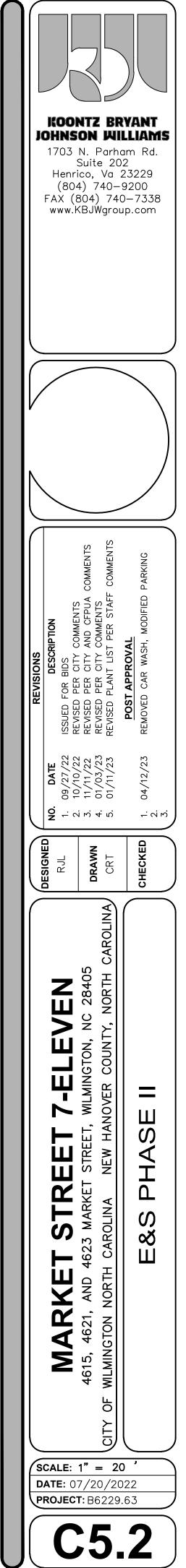
PHASE 2 SEQUENCE OF CONSTRUCTION

- 1. ALL EROSION CONTROL DEVICES WILL BE INSPECTED AND REPAIRED AFTER ALL RAIN EVENTS.
- 2. IN NO CASE, AT ANY TIME DURING THIS PROJECT, SHALL ESC MEASURES BE REMOVED WITHOUT APPROVAL OF THE ENVIRONMENTAL INSPECTOR. REPAIRS SHALL BE MADE TO ALL DISTURBED AREAS DUE TO THE REMOVAL OF THE EROSION PRACTICES. TOPSOIL, SEED, AND MULCH WILL BE APPLIED TO THESE AREAS.
- 3. UPON COMPLETION OF PHASE 1 ESC MEASURES, CONTRACTOR SHALL PROCEED WITH THE REMAINING SITE-WORK ITEMS (STORMWATER AND UTILITY INSTALLATION, FINAL GRADING, PERIMETER CURB AND GUTTER, PARKING LOT BASE, PAVEMENT INSTALLATION, ETC.).
- 4. INSTALLATION OF THE PROPOSED STORM SEWER SHALL BE A PRIORITY SUCH THAT ALL DENUDED AREAS DRAIN TO THE SKIMMER BASIN. STORM SEWER SHALL BE BUILT PER THE GRADING AND DRAINAGE PLAN. PLACE INLET PROTECTION AS STORM SEWER IS INSTALLED.
 4.1. STORM STRUCTURE STR 1 AND REMAINDER OF THE PIPE BETWEEN STR 1 AND 2 SHALL BE CONSTRUCTED AFTER REMOVAL OF THE SKIMMER BASIN.
- 5. WHEN THE SKIMMER SEDIMENT BASIN DRAINAGE AREA HAS BEEN SUFFICIENTLY STABILIZED (EITHER THROUGH GRAVEL OR VEGETATION) AND UPON PERMISSION OF THE ENVIRONMENTAL INSPECTOR, THE SKIMMER AND OUTET PIPE SHALL BE REMOVED AND THE SKIMMER SEDIMENT BASIN SHALL BE DRAINED, DEMUCKED, AND GRADED TO THE ELEVATIONS OF THE ULTIMATE GRADING PLAN.
- 6. ONCE CURB AND GUTTER HAS BEEN POURED, A GRAVEL BASE HAS BEEN PLACED WITHIN ALL PAVEMENT AREAS, ALL UPSTREAM AREAS HAVE BEEN STABILIZED, AND UPON PERMISSION OF THE ENVIRONMENTAL INSPECTOR, REMOVE ALL REMAINING ON-SITE E&S CONTROLS.









PLAN NUMBER #2022036

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE PROPOSED LAND DISTURBANCE (2.43 ACRES) FOR THE PROJECT WILL INCLUDE THE DEMOLITION OF AN EXISTING ASPHALT PARKING LOT, GRAVEL DRIVE, DIRT MOUND, CURBING AND GUTTER, COMMERCIAL DRIVEWAY ENTRANCE, AND SIDEWALK IN PREPARATION FOR THE CONSTRUCTION OF THE PROPOSED NEW 7-ELEVEN WITH GAS, CAR WASH, AND ASPHALT PARKING LOT.

EXISTING SITE CONDITIONS:

THE SITE IS CURRENTLY USED AS A VACANT LOT WITH ASPHALT PARKING LOT, GRAVEL DRIVE, AND DIRT MOUND.

ADJACENT AREAS:

THE IMMEDIATE SURROUNDING AREAS ARE DEVELOPED COMMERCIAL USES.

OFF-SITE AREAS:

PORTIONS OF THE PRIVATE DRIVES WILL BE DISTURBED TO PROVIDE PROPOSED ENTRANCES, UTILITY CONNECTIONS, AND NEW SIDEWALK. EXISTING FILL TO APPROXIMATELY 3' WAS ENCOUNTERED IN TWO BORINGS BELOW EXISTING GROUND SURFACE. SUBGRADE CONSISTED OF VERY LOOSE TO MEDIUM DENSE CLAYEY/SILTY SAND (SC/SW).

CRITICAL AREA:

DUE TO THE EXISTING TOPOGRAPHY OF THE SITE, NO SIGNIFICANT EROSION PROBLEMS ARE ANTICIPATED. DUE TO THE SOILS HAVING MEDIUM TO HIGH MOISTURE CONTENT, CONTRACTOR SHALL USE CAUTION AT THE INGRESS/EGRESS FROM THE SITE. CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING LAND DISTURBANCE.

EROSION AND SEDIMENT CONTROL:

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

- A. STRUCTURAL PRACTICES • TREE PROTECTION - STD. & SPEC. 6.05
- CONSTRUCTION ENTRANCE STD. & SPEC. 6.06 • INLET PROTECTION - STD. & SPEC. 6.51
- SKIMMER SEDIMENT BASIN STD. & SPEC. 6.64 • POROUS BAFFLES - STD. & SPEC. 6.65
- SILT FENCE STD. & SPEC. 6.62
- SAFETY FENCE **B. STRUCTURAL PRACTICES**
- TEMPORARY SEEDING STD. & SPEC. 6.10 • PERMANENT SEEDING - STD. & SPEC. 6.11

PERMANENT STABILIZATION:

THE PARKING LOT WILL BE SECURED WITH ASPHALT PAVING AS SHOWN ON SHEET C2.1. ALL OTHER DISTURBED AREAS ARE TO BE SEEDED OR SODDED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

STORMWATER RUNOFF CONSIDERATIONS:

THE STORMWATER RUNOFF SHALL BE COLLECTED ON-SITE AND CONVEYED INTO THE EXISTING STORMWATER CONVEYANCE SYSTEM.

CALCULATIONS:

PROPOSED DRAINAGE CALCULATIONS ARE PROVIDED WITH THIS PROJECT.

MAINTENANCE:

CONTRACTOR SHALL MAINTAIN AT ALL TIMES ALL EROSION AND SEDIMENT CONTROL MEASURES PER STATE OF NORTH CAROLINA REQUIREMENTS SET FORTH IN THE EROSION AND SEDIMENT CONTROL NOTES LISTED ON THIS SHEET.

CONSTRUCTION ENTRANCE:

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND
- AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. 2. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED
- IMMEDIATELY. 3. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

SILT FENCE:

- 1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE
- BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY
- ONE-HALE THE HEIGHT OF THE BARRIER 5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

STORM DRAIN INLET PROTECTION:

- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT
- 3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SKIMMER SEDIMENT BASIN:

- THE STRUCTURE SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH ($\frac{1}{2}$ INCH OR GREATER) RAIN EVENT AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THE SEDIIMENT UNDERNEATH CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN.
- REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDER OR AROUND THEM. CHECK THE FABRIC-LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE
- SPILLWAY. CHECK THE EMBANKMENT, SPILLWAY, AND OUTLET PERIODICALLY FOR EROSION DAMAGE AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ANY NECESSARY REPAIRS IMMEDIATELY, REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS. AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE, OUTLET PIPE, AND ALL UNSTABLE SEDIMENT, SMOOTH AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE.

PERMANENT SEEDING SPECIFICATIONS

SOIL PREPARATION:

- PREPARATION FOR PRIMARY/PERMANENT STABILIZATION SHALL NOT BEGIN UNTIL ALL CONSTRUCTION AND UTILITY WORK WITHIN THE PREPARATION AREA IS COMPLETE. HOWEVER, IT MAY BE NECESSARY TO PREPARE FOR NURSE CROPS PRIOR TO COMPLETION OF CONSTRUCTION AND INSTALLATION OF UTILITIES.
- · A NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOILS TEST (OR EQUAL) SHALL BE OBTAINED FOR ALL AREAS TO BE SEEDED, SPRIGGED, SODDED OR PLANTED. RECOMMENDED FERTILIZER AND PH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO THE PREPARED AREAS AND BACKFILL MATERIAL PER THE TEST • ALL AREAS TO BE SEEDED OR PLANTED SHALL BE TILLED OR RIPPED TO A DEPTH SPECIFIED ON THE APPROVED PLANS, CONSTRUCTION
- SEQUENCE AND/OR CONSTRUCTION BID LIST. RIPPING CONSISTS OF CREATING FISSURES IN A CRISS-CROSS PATTERN OVER THE ENTIRE SURFACE AREA, UTILIZING AN IMPLEMENT THAT WILL NOT GLAZE THE SIDE WALLS OF THE FISSURES. SITE PREPARATION THAT DOES NOT COMPLY WITH THESE DOCUMENTS SHALL NOT BE ACCEPTABLE. THE DEPTH OF SOIL PREPARATION MAY BE ESTABLISHED AS A RANGE BASED ON THE APPROVAL OF THE REVIEWING STATE OR LOCAL AGENCY. ONCE TILLED OR RIPPED ACCORDING TO THE APPROVED PLAN, ALL AREAS ARE
- TO BE RETURNED TO THE APPROVED FINAL GRADE. PH MODIFIERS AND/OR OTHER SOIL AMENDMENTS SPECIFIED IN THE SOIL TESTS CAN BE ADDED DURING THE SOIL PREPARATION PROCEDURE OR AS DESCRIBED BELOW. • ALL STONES LARGER THAN THREE (3) INCHES ON ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOUS MATERIALS THAT SURFACE DURING THE BED PREPARATION SHALL BE REMOVED.

AREAS TO BE SEEDED:

- TILL OR DISC THE PREPARED AREAS TO BE SEEDED TO A MINIMUM DEPTH OF FOUR (4) INCHES. REMOVE STONES LARGER THAN THREE (3) INCHES ON ANY SIDE, STICKS, ROOTS AND OTHER EXTRANEOUS MATERIALS THAT SURFÁCE. IF NOT INCORPORATED DURING THE SOIL
- PREPARATION PROCESS, ADD PH MODIFIER AND FERTILIZERS AT THE RATE SPECIFIED IN THE SOIL TEST REPORT • RE-COMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE A SMOOTH EVEN SOIL SURFACE WITH A LOOSE,
- UNIFORMLY FINE TEXTURE. ALL RIDGES AND DEPRESSIONS SHALL BE REMOVED AND FILLED TO PROVIDE THE APPROVED SURFACE DRAINAGE SEEDING OF GRADED AREAS IS TO BE DONE IMMEDIATELY AFTER FINISHED GRADES ARE OBTAINED AND SEEDBED PREPARATION IS COMPLETED.

<u>PLANTING:</u>

- SEED PREPARE THE SEED BED AS DESCRIBED ABOVE IN SOIL PREPARATION. APPLY SEED AT RATES SPECIFIED ON THE PLANS, AND/OR AS RECOMMENDED IN TABLES 6.11A-C OF THE EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, WITH A CYCLONE SEEDER, PROP TYPE SPREADER, DRILL, OR HYDROSEEDER ON AND/OR INTO THE PREPARED BED. INCORPORATE THE SEED INTO THE SEED BED AS SPECIFIED. PROVIDE FINISHED GRADES AS SPECIFIED ON THE APPROVED PLAN AND CAREFULLY CULTI-PACK THE SEEDBED AS TERRAIN ALLOWS. IF TERRAIN DOES NOT ALLOW FOR THE USE OF A CULTIPACKER, THE APPROVED PLANS AND CONSTRUCTION SEQUENCE MUST PROVIDE AN ALTERNATIVE METHOD OF LIGHTLY COMPACTING THE SOIL. MULCH IMMEDIATELY.
- SPRIGS AND SOD INSTALL ONTO THE PREPARED SEED BED PER THE MOST CURRENT GUIDANCE IN CAROLINA LAWNS, NCSU EXTENSION BULLETIN AG-69, OR PRACTICE 6.12 SODDING.
- WOODY PLANTS (LINERS, CONTAINER, B&B) THESE MATERIALS ARE TYPICALLY USED TO COMPLEMENT AN HERBACEOUS PROTECTIVE COVER. THEY EVENTUALLY ARE MAJOR COMPONENTS OF LONG-TERM, PERMANENT STABILIZATION AND SHOULD BE CHOSEN AND PLANNED IN CONJUNCTION WITH IMMEDIATE AND LONG-TERM MAINTENANCE. THE PLANTS SHOULD BE SELECTED AND SPECIFIED BY THE DESIGN PROFESSIONAL FOR EACH INDIVIDUAL PROJECT. SEE PRACTICE 6.13 TREES, SHRUBS, VINES, AND GROUND COVERS.

DEPTH.

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MAINTENANCE REQUIREMENTS

· INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY · BE SURE TO MAINTAIN ACCESS TO BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT, AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

SILT FENCE OUTLET:

• INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT ($\frac{1}{2}$ INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE R UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

<u>ENT SEEDING:</u> INTIPEDE GRASS

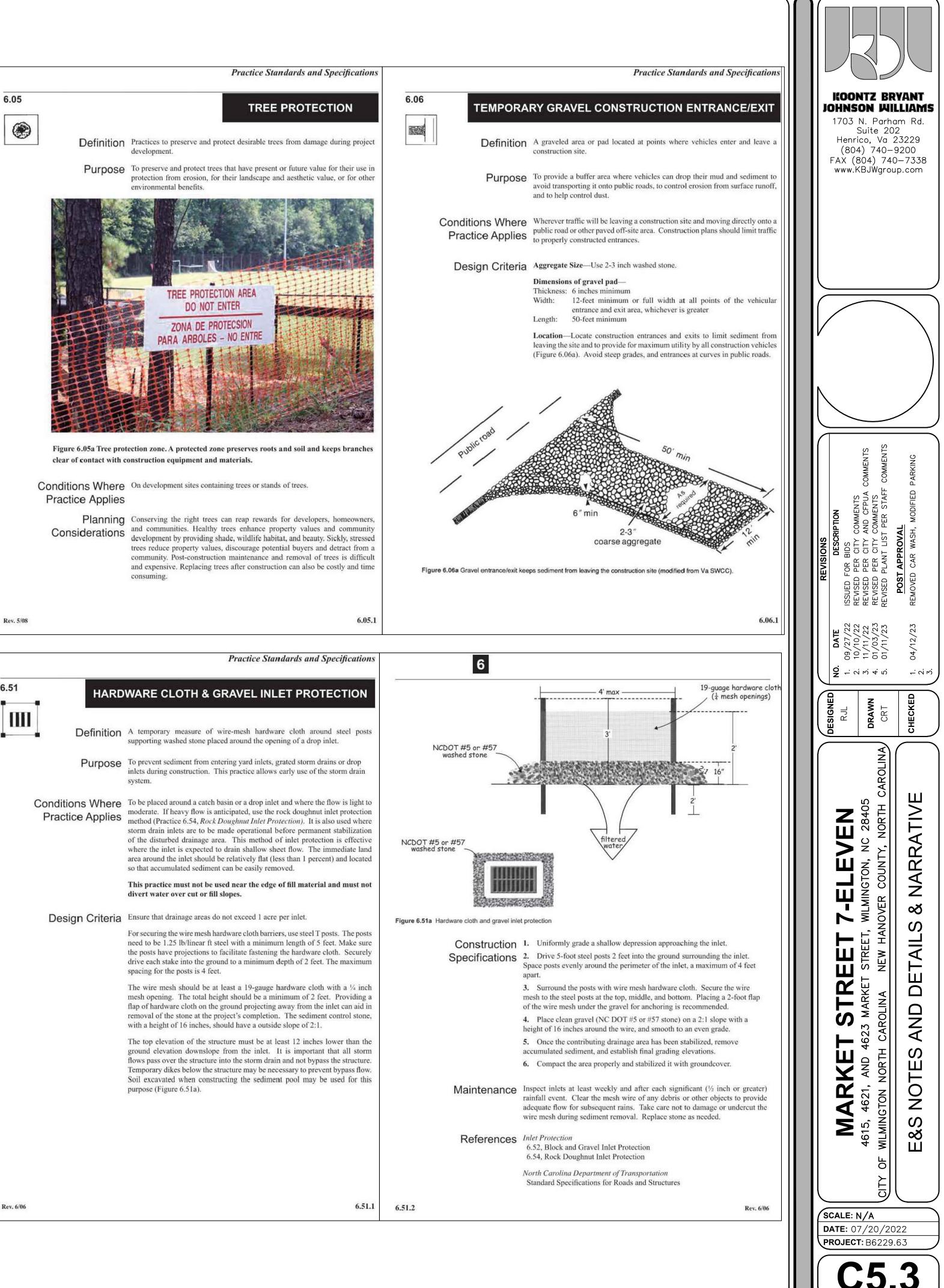
RCH TO MAY – MOW GRASS TO 1 TO 2 INCHES, DO NOT LET GRASS GET TALLER THAN 2 $rac{1}{2}$ HES.SEEDING MIXTURE OF 100LBS/ACRE OF TALL FESCUE, 25LBS/ACRE OF GERMAN MILLET, D 25 LBS/ACRE OF HULLED BERMUDA. SEEDING SHOULD TAKE PLACE BETWEEN MARCH 15 – TEMBER 15. SEEDING AMENDMENTS INCLUDE APPLYING LIME AND FERTILIZER PER SOIL TEST, 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER. DL SEASONS - SEEDING MIXTURE OF 100LBS/ACRE OF TALL FESCUE, 30 LBS/ACRE OF EAT, 25 LBS/ACRE OF UNHULLED BERMUDA. SEEDING SHOULD TAKE PLACE BETWEEN SEPTEMBER 15TH - MARCH 15. SEEDING AMENDMENTS INCLUDE APPLYING LIME AND FERTILIZER PER SOIL TEST, OR 4000 LBS/ACRE LIMESTONE AND 1000 LBS/ACRE 10-10-10 FERTILIZER. MAINTENANCE REQUIREMENTS WILL CHANGE DEPENDING ON TIME OF SEEDING. CONTRACTOR TO FOLLOW GUIDELINES OF GOVERNING AGENCY TO MAINTAIN GROUNDCOVER.

TEMPORARY SEEDING:

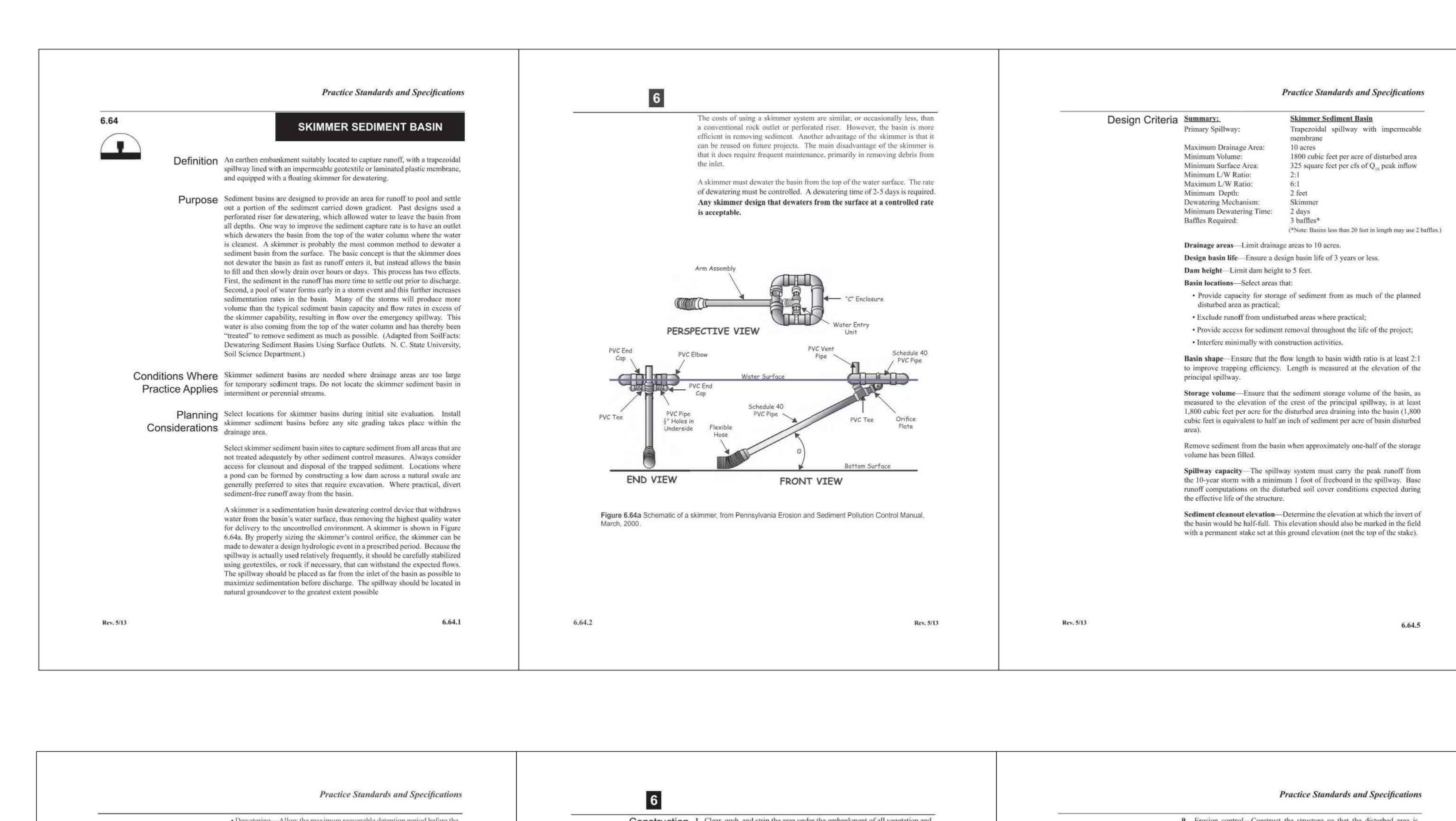
• EARLY SUMMER SEASONS, 40LBS/ACRE OF GERMAN MILLET, 80 LBS/ACRE OF TALL FESUE. PLANTED MAY 1 - AUGUST 15 APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING AND REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. SEEDING AMENDMENTS INCLUDE APPLYING LIME AND FERTILIZER PER SOIL TESTS, OR 2000 LBS/ACRE LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.

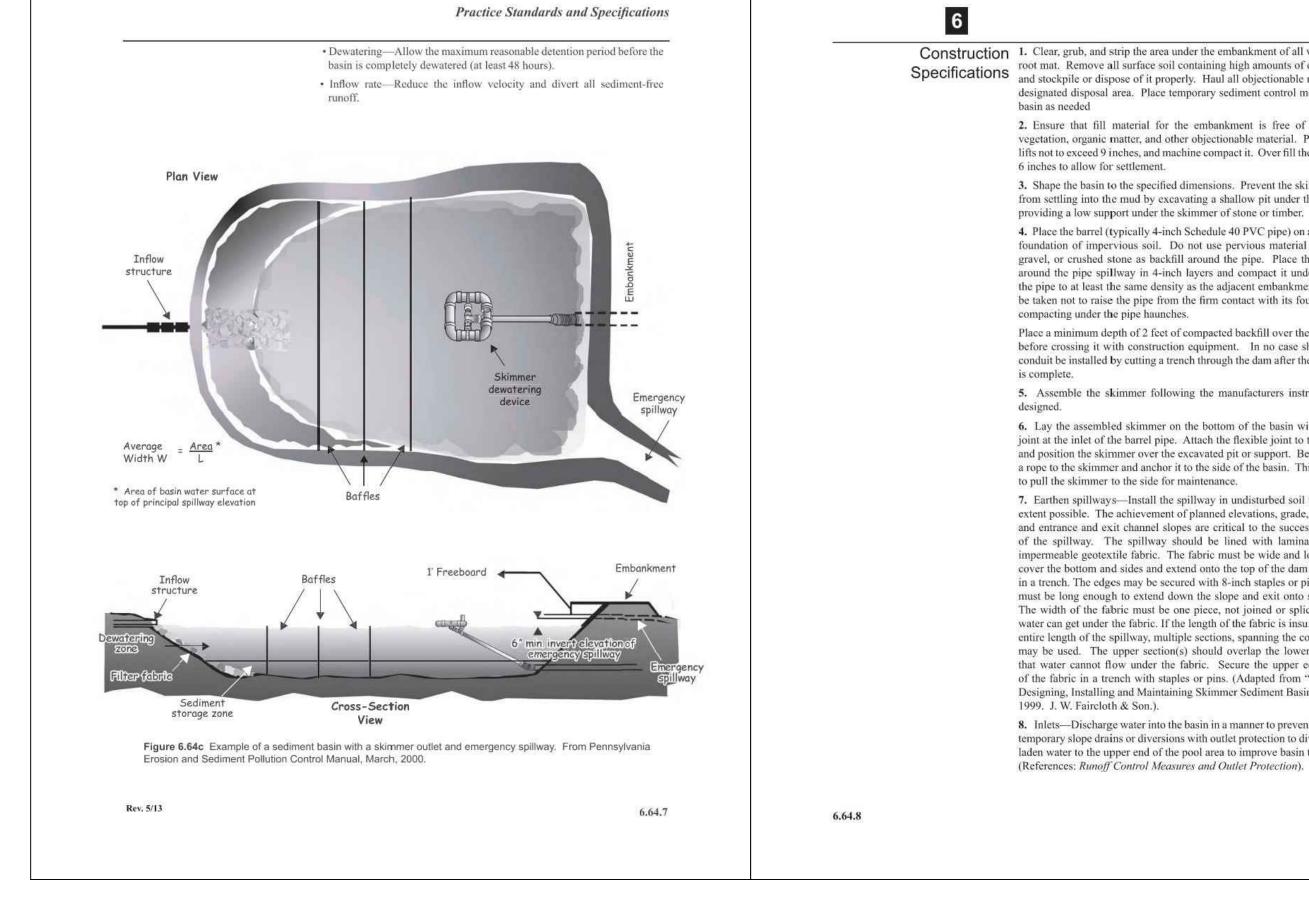
• FALL/WINTER SEASON, 120 LBS/ACRE RYE (GRAIN), 80 LBS/ACRE TALL FESUE. PLANTED OCTOBER 25 - DECEMBER 30. BETWEEN DECEMBER 30 - FEBRUARY 15, ADD 50 LBS/ACRE OF ANNUAL KOBE LESPEDEZA. APPLY 4000 LBS/ACRE STRAW OR EQUIVALENT HYDROSEEDING. SEEDING AMENDMENTS INCLUDE APPLYING LIME AND FERTILIZER PER SOIL TESTS, OR 2000 LBS/ACRE LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER. MAINTENANCE REQUIREMENTS WILL CHANGE DEPENDING ON TIME OF SEEDING. CONTRACTOR TO

FOLLOW GUIDELINES OF GOVERNING AGENCY TO MAINTAIN GROUNDCOVER. SEE FOLLOWING SHEETS FOR MAINTENANCE RECOMMENDATIONS.



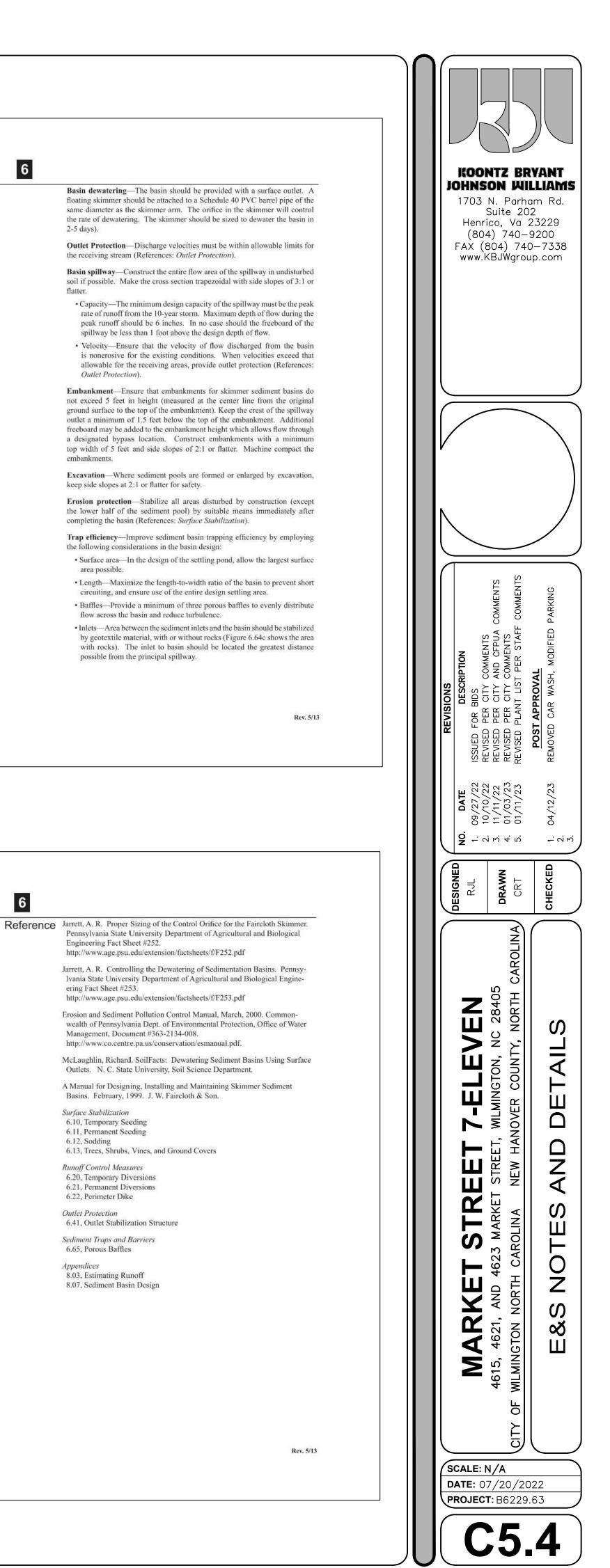
6.51 HARD	WARE CLOTH & GRAVEL INLET PROTECTI
	WARE CLOTH & GRAVEL INLET PROTECTI
Definition	A temporary measure of wire-mesh hardware cloth around steel supporting washed stone placed around the opening of a drop inlet.
Purpose	To prevent sediment from entering yard inlets, grated storm drains or drains or drains during construction. This practice allows early use of the storm of system.
Conditions Where Practice Applies	To be placed around a catch basin or a drop inlet and where the flow is 1 moderate. If heavy flow is anticipated, use the rock doughnut inlet protimethod (Practice 6.54, <i>Rock Doughnut Inlet Protection</i>). It is also used storm drain inlets are to be made operational before permanent stabili of the disturbed drainage area. This method of inlet protection is efficient where the inlet is expected to drain shallow sheet flow. The immediat area around the inlet should be relatively flat (less than 1 percent) and 1 so that accumulated sediment can be easily removed.
	This practice must not be used near the edge of fill material and mu divert water over cut or fill slopes.
Design Criteria	Ensure that drainage areas do not exceed 1 acre per inlet.
	For securing the wire mesh hardware cloth barriers, use steel T posts. Th need to be 1.25 lb/linear ft steel with a minimum length of 5 feet. Mak the posts have projections to facilitate fastening the hardware cloth. Se drive each stake into the ground to a minimum depth of 2 feet. The max spacing for the posts is 4 feet.
	The wire mesh should be at least a 19-gauge hardware cloth with a 1 mesh opening. The total height should be a minimum of 2 feet. Provi flap of hardware cloth on the ground projecting away from the inlet can removal of the stone at the project's completion. The sediment control with a height of 16 inches, should have a outside slope of 2:1.
	The top elevation of the structure must be at least 12 inches lower the ground elevation downslope from the inlet. It is important that all flows pass over the structure into the storm drain and not bypass the structure may be necessary to prevent bypas. Soil excavated when constructing the sediment pool may be used for purpose (Figure 6.51a).
Rev. 6/06	





- Construction 1. Clear, grub, and strip the area under the embankment of all vegetation and Specifications root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed
 - 2. Ensure that fill material for the embankment is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 9 inches, and machine compact it. Over fill the embankment 6 inches to allow for settlement.
 - 3. Shape the basin to the specified dimensions. Prevent the skimming device from settling into the mud by excavating a shallow pit under the skimmer or providing a low support under the skimmer of stone or timber.
 - 4. Place the barrel (typically 4-inch Schedule 40 PVC pipe) on a firm, smooth foundation of impervious soil. Do not use pervious material such as sand, gravel, or crushed stone as backfill around the pipe. Place the fill material around the pipe spillway in 4-inch layers and compact it under and around the pipe to at least the same density as the adjacent embankment. Care must be taken not to raise the pipe from the firm contact with its foundation when compacting under the pipe haunches.
 - Place a minimum depth of 2 feet of compacted backfill over the pipe spillway before crossing it with construction equipment. In no case should the pipe conduit be installed by cutting a trench through the dam after the embankment
 - is complete. 5. Assemble the skimmer following the manufacturers instructions, or as designed.
 - 6. Lay the assembled skimmer on the bottom of the basin with the flexible joint at the inlet of the barrel pipe. Attach the flexible joint to the barrel pipe and position the skimmer over the excavated pit or support. Be sure to attach a rope to the skimmer and anchor it to the side of the basin. This will be used to pull the skimmer to the side for maintenance.
 - 7. Earthen spillways—Install the spillway in undisturbed soil to the greatest extent possible. The achievement of planned elevations, grade, design width, and entrance and exit channel slopes are critical to the successful operation of the spillway. The spillway should be lined with laminated plastic or impermeable geotextile fabric. The fabric must be wide and long enough to cover the bottom and sides and extend onto the top of the dam for anchoring in a trench. The edges may be secured with 8-inch staples or pins. The fabric must be long enough to extend down the slope and exit onto stable ground. The width of the fabric must be one piece, not joined or spliced; otherwise water can get under the fabric. If the length of the fabric is insufficient for the entire length of the spillway, multiple sections, spanning the complete width, may be used. The upper section(s) should overlap the lower section(s) so that water cannot flow under the fabric. Secure the upper edge and sides of the fabric in a trench with staples or pins. (Adapted from "A Manual for Designing, Installing and Maintaining Skimmer Sediment Basins." February,
 - 1999. J. W. Faircloth & Son.). 8. Inlets—Discharge water into the basin in a manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sedimentladen water to the upper end of the pool area to improve basin trap efficiency

Rev. 5/13

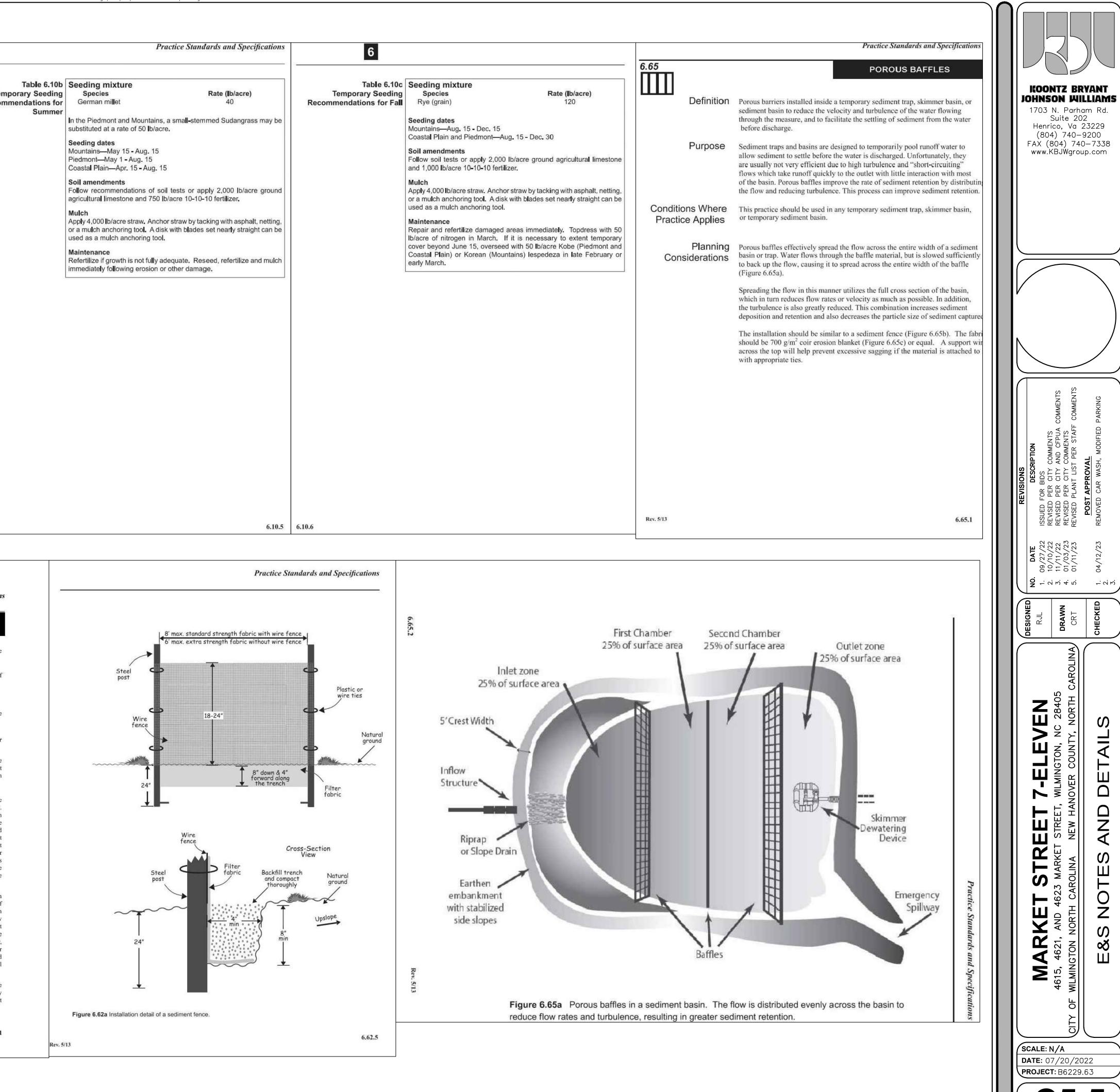


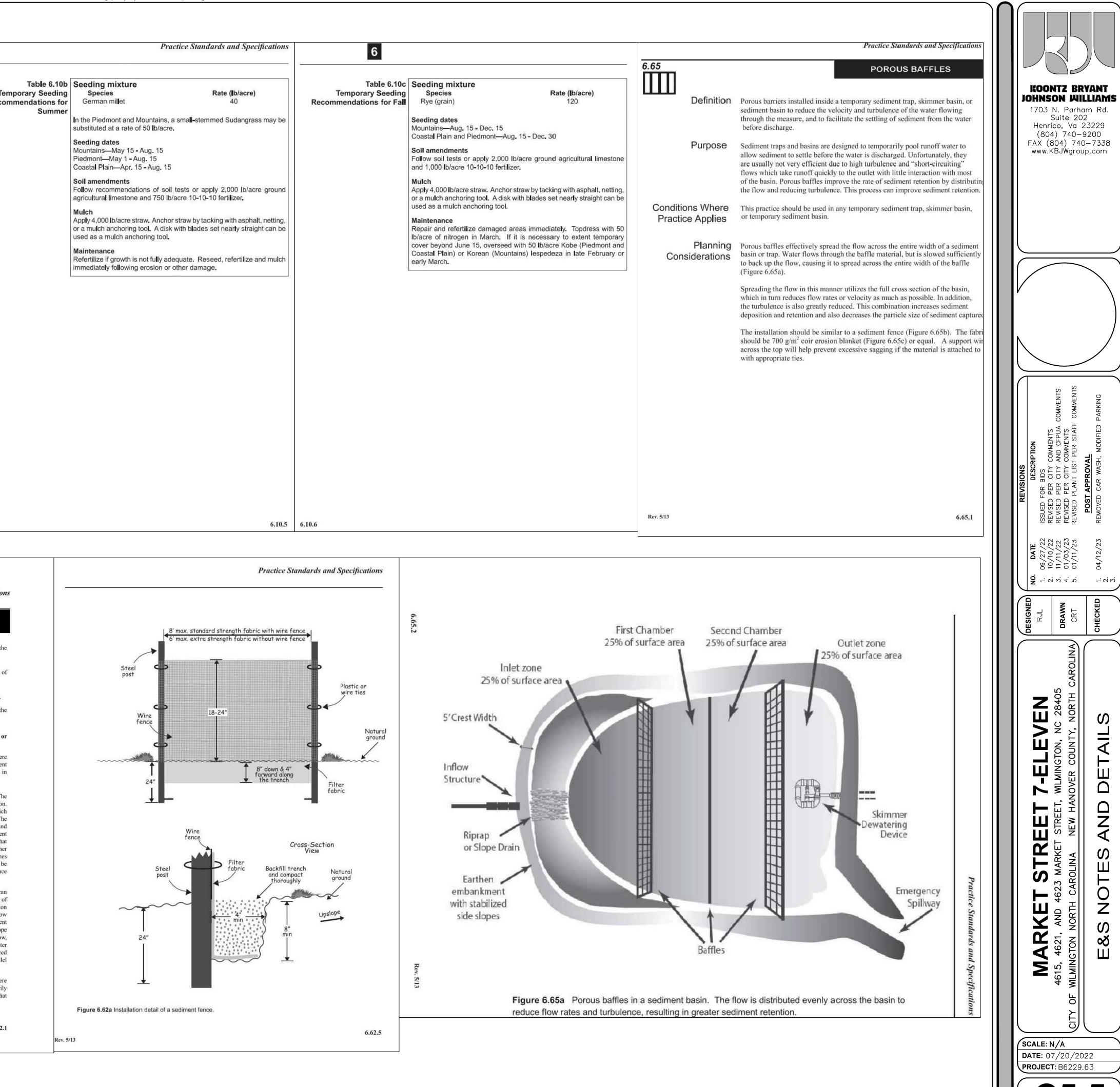
6.64.6

6.64.10

	Seeding mixture	international and and and	
Temporary Seeding	Species	Rate (Ib/acre)	
Recommendations for Late Winter and Early Spring	Rye (grain) Annual lespedeza (Kobe in Piedmont and Coastal Plain,	120	
	Korean in Mountains)	50	
	Omit annual lespedeza when durati extend beyond June.	on of temporary cover is not to	
	Seeding dates Mountains—Above 2500 feet: Feb. 1	5 May 15	
	Below 2500 feet: Feb. 1-		
	Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15		
	Soil amendments Follow recommendations of soil test agricultural limestone and 750 lb/acre		
	Mulch Apply 4,000 lb/acre straw. Anchor stra or a mulch anchoring tool. A disk with used as a mulch anchoring tool.		
	Maintenance Refertilize if growth is not fully adequa immediately following erosion or othe		

SEDIMENT FENCE	
A temporary sediment control measure consisting of fabric buried at the bottom, stretched, and supported by posts.	Definition
To retain sediment from small disturbed areas by reducing the velocity of sheet flows to allow sediment deposition.	Purpose
Below small-disturbed areas that are less then 1/4 acre per 100 feet of fence.	Conditions Where
Where runoff can be stored behind the sediment fence without damaging the fence or the submerged area behind the fence.	Practice Applies
Do not install sediment fences across streams, ditches, or waterways, or other areas of concentrated flow.	
Sediment fence should be placed along topographic elevation contours, where it can intercept stormwater runoff that is in dispersed sheet flow. Sediment fence should not be used alone below graded slopes greater than 10 feet in height.	
A sediment fence is a system to retain sediment on the construction site. The fence retains sediment primarily by retarding flow and promoting deposition. In operation, generally the fence becomes clogged with fine particles, which reduce the flow rate. This causes a pond to develop behind the fence. The designer should anticipate ponding and provide sufficient storage areas and overflow outlets to prevent flows from overtopping the fence. Since sediment fences are not designed to withstand high water levels, locate them so that only shallow pools can form. Tie the ends of a sediment fence into higher ground to prevent flow around the end of the fence before the pool reaches design level. Curling each end of the fence uphill in a "J" pattern may be appropriate to prevent end flow. Provide stabilized outlets to protect the fence system and release storm flows that exceed the design storm.	Planning Considerations
Deposition occurs as the storage pool forms behind the fence. The designer can direct flows to specified deposition areas through appropriate positioning of the fence or by providing an excavated area behind the fence. Plan deposition areas at accessible points to promote routine cleanout and maintenance. Show deposition areas in the erosion and sedimentation control plan. A sediment fence acts as a diversion if placed slightly off the contour. A maximum slope of 2 percent is recommended. This technique may be used to control shallow, uniform flows from small disturbed areas and to deliver sediment-laden water to deposition areas. The anchoring of the toe of the fence should be reinforced with 12 inches of NC DOT #5 or #57 washed stone when flow will run parallel to the toe of the fence.	
Sediment fences serve no function along ridges or near drainage divides where there is little movement of water. Confining or diverting runoff unnecessarily with a sediment fence may create erosion and sedimentation problems that would not otherwise occur.	
6.62.	3





(c) Slopes steeper 7 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 (d) Slopes 3:1 to 4:1 14 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones (e) Areas with slopes flatter than 4:1 14 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones (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 -7 days for perimeter dikes, swales, ditches perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unles there is zero slope -7 days for Falls Lake Watershed unles 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 grass seed covered with straw or other mulches and tackifiers. <t< th=""><th>WI Implact act see per aut</th><th>ITH THE NCG01 CONST plementing the details an tivity being considered co ctions of the NCG01 Con rmittee shall comply with thority having jurisdiction</th><th>RUCTION GENERAL ad specifications on this ompliant with the Groun struction General Perr the Erosion and Sedir . All details and specifi</th><th>ANDLING PRACTICES FOR COMPLIANCE PERMIT s plan sheet will result in the construction nd Stabilization and Materials Handling mit (Sections E and F, respectively). The ment Control plan approved by the delegate ications shown on this sheet may not apply uthority having jurisdiction.</th></t<>	WI Implact act see per aut	ITH THE NCG01 CONST plementing the details an tivity being considered co ctions of the NCG01 Con rmittee shall comply with thority having jurisdiction	RUCTION GENERAL ad specifications on this ompliant with the Groun struction General Perr the Erosion and Sedir . All details and specifi	ANDLING PRACTICES FOR COMPLIANCE PERMIT s plan sheet will result in the construction nd Stabilization and Materials Handling mit (Sections E and F, respectively). The ment Control plan approved by the delegate ications shown on this sheet may not apply uthority having jurisdiction.
Site Area Description Stabilize within this many calendar and disturbance Timeframe variations (a) Perimeter dikes, swales, ditches, and perimeter slopes 7 None (b) High Quality Water (HOW) Zones 7 None (c) Slopes steeper than 3:1 7 None (d) Slopes 3:1 to 4:1 14 If slopes are 10 feet 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 (e) Areas with slopes flatter than 4:1 14 -7 days for perimeter slopes and HOW Zones -10 days for Falls Lake Watershed unless -10 days for Falls Lake Watershed unles 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 or case longer than 90 calendar days after the last land disturbing activity against accelerated erosion until permanent ground stabilization is achieved. CROUND STABILIZATION SPECIFICATION Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below: • Hydroseeding • Approgray grays seed covered with straw or other mulches and tackfiles • Hydroseeding • Rolled erosion control products with or without temporary grass s	SE	CTION E: GROUND ST	ABILIZATION	
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(c) Slopes steeper 7 If slopes are 10 feet 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 (d) Slopes 3:1 to 4:1 14 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones (e) Areas with slopes flatter than 4:1 14 -7 days for Falls Lake Watershed unles 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 converted to permanent for ender the surface stabil against accelerated erosion until permanent ground stabilization as acon 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 stabil against accelerated erosion until permanent ground stabilization as accelerated erosion until permanent ground stabilization as 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 grass seed covered with straw or without temporary grass seed Permanent grass seed covered with straw or other mulches and tackifiers. 8 Alled erosion control products with or without temporary grass seed is the concent	(t		7	None
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(e) Areas with slopes flatter than 4:1 14 Permeter slopes and HQW Zones -10 days for Falls Lake Watershed unles 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 grass seed covered with straw of ther mulches and tacklifers. Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with or selecting from the NC DWR List of Approved PAMS/Flocculants. 2. Apply flocculants that are appropriate for the soils being exposed during construction selecting from the NC DWR List of Approved PAMS/Flocculants. 3.	(0	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
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 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 Plastic sheeting Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with or without temporary grass seed Structural methods such as concrete, asphalt or retaining walls Plastic sheeting Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with or without temporary distributed ground consufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products 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	(6		14	-10 days for Falls Lake Watershed unless
 selecting from the NC DWR List of Approved PAMS/Flocculants. 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions. 4. Provide ponding area for containment of treated Stormwater before discharging offsit 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or 	Te aga <u>G</u> St	Emporary ground stabilization ainst accelerated erosion ROUND STABILIZATION tabilize the ground sufficient chniques in the table below Temporary State Temporary grass seed of other mulches and tacking Hydroseeding Rolled erosion control pre- without temporary grass Appropriately applied states	tion shall be maintained until permanent groun N SPECIFICATION ently so that rain will n ow: Dilization covered with straw or fiers.	ed in a manner to render the surface stable nd stabilization is achieved. ot dislodge the soil. Use one of the Permanent Stabilization 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 cove sufficient to restrain erosion Structural methods such as concrete,
	<u></u>	DLYACRYLAMIDES (PA	.MS) AND FLOCCULA	

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids. 1.
- 2. 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.
- 6. 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. 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. 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.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. 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.
- 8. Dispose waste off-site at an approved disposal facility.
- 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 3. Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. 4.
- 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- 1. 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.
- 2. 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

- 1. 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.
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with 4. 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.

HAZARDOUS AND TOXIC WASTE

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

000 SIDE SLOPE SILT FENCE (TYP.) SANDBAGS (TYP.) OR STAPLES **SECTION A-A** HIGH COHESIVE & LOW FILTRATION SOIL BERM CONCRETE WASHOUT <u>1</u>0' MI<u>N</u> **—**B 10 MIL 10' MIN SANDBAGS (TYP.) В

CONCRETE WASHOUTS

SECTION B-B

1. Do not discharge concrete or cement slurry from the site.

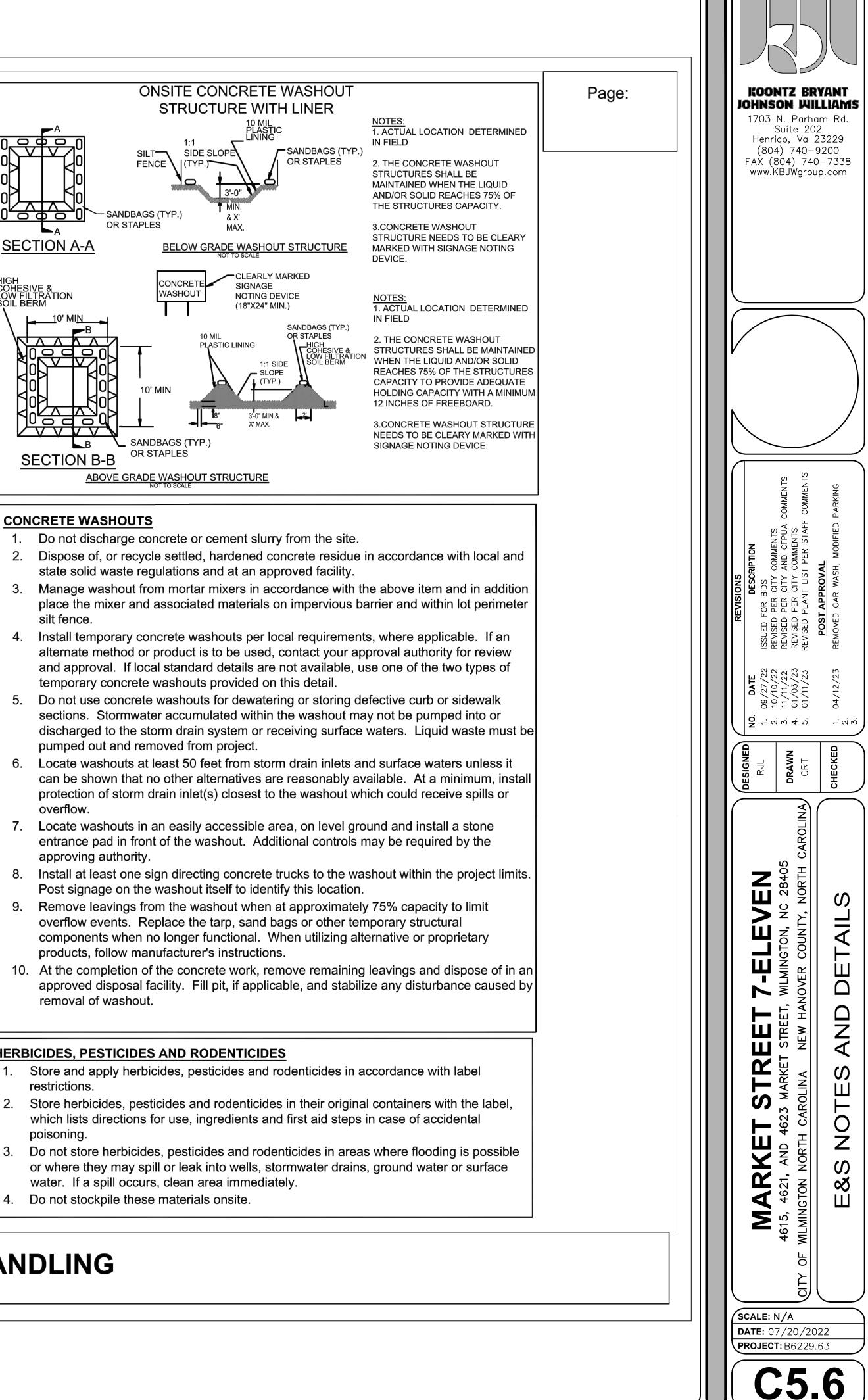
OR STAPLES

- state solid waste regulations and at an approved facility.
- silt fence.
- temporary concrete washouts provided on this detail
- pumped out and removed from project.
- overflow.
- approving authority.
- 8. Post signage on the washout itself to identify this location.
- products, follow manufacturer's instructions.
- removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- restrictions.
- poisoning
- water. If a spill occurs, clean area immediately.
- 4. Do not stockpile these materials onsite.

NCG-01 GROUND COVER & MATERIALS HANDLING

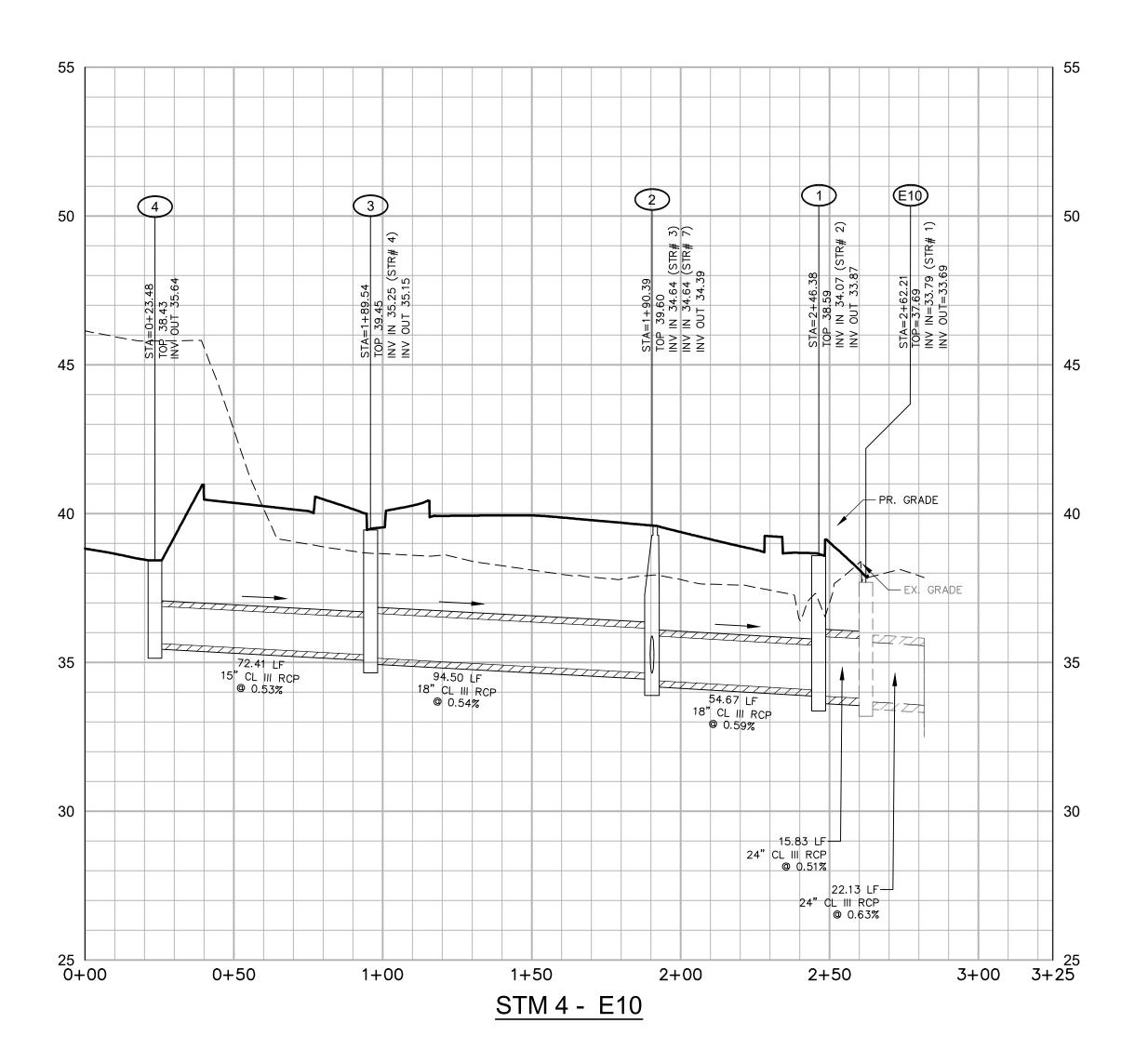


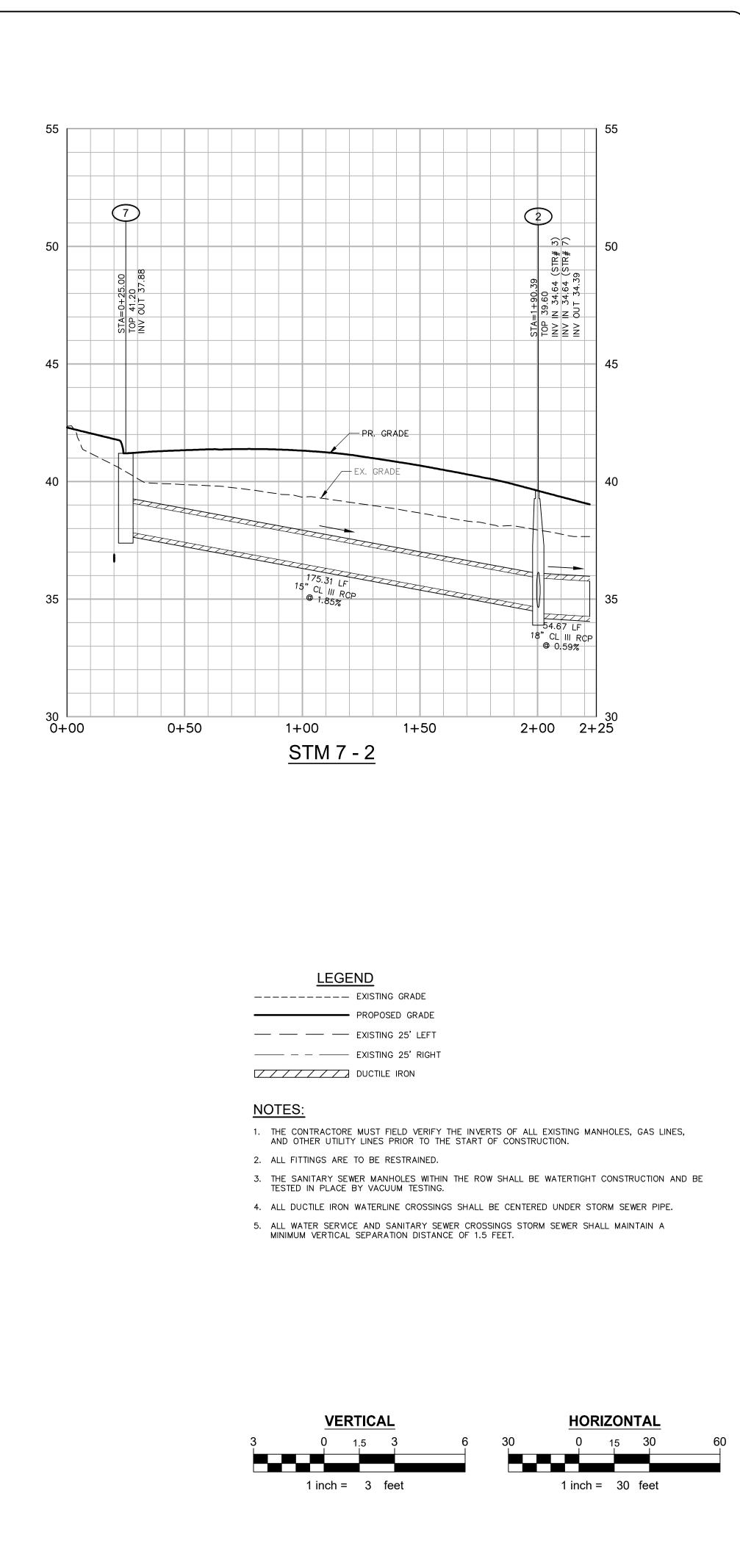
Date:			
		e to withdraw water (a) The E&SC (b) The non-su (c) Dewatering (d) Vegetated, (e) Velocity dis	s that receive runoff from drainage areas of one acre or mo from the surface shall be rare (for example, times with exterplan authority has been provided with documentation of the urface withdrawal has been reported as an anticipated bypa discharges are treated with controls to minimize discharge upland areas of the sites or a properly designed stone pad ssipation devices such as check dams, sediment traps, and emoved from the dewatering treatment devices described in
			PART III
Se be pe w gr pe	elf-inspec elow. Wh ersonnel t hich it is s reater that erformed u	A: SELF-INSPECTI tions are required d en adverse weather o be in jeopardy, the afe to perform the i n 1.0 inch occurs ou upon the commence	<u>ON</u> uring normal business hours in accordance with the table or site conditions would cause the safety of the inspection e inspection may be delayed until the next business day on nspection. In addition, when a storm event of equal to or utside of normal business hours, the self-inspection shall be ement of the next business day. Any time when inspections the Inspection Record.
Inspe	ct	Frequency (during normal	Inspection records must include:
maint	ain gauge ained in working	business hours) Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information i available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E8 Meas		•	 Identification of the measures inspected Date and Time of the inspection Name of the person performing the inspection Indication of whether the measures were operating properly Description of maintenance needs for the measure Description, Evidence, and date of corrective actions taken
disch		•	 Identification of the discharge outfalls inspected Date and Time of the inspection Name of the person performing the inspection Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration Indication of visible sediment leaving the site Description, Evidence, and date corrective actions taken
(4) Pe of Site	erimeter e	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	•
wetla onsite offsite		At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours.	If the stream or wetland has increased visible sedimentation of has visible increased turbidity from the construction activity, th a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2)Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item(2)(a) of this permit
	round lization ures	After each phase of grading.	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timefram or assurance that they will be provided as soon as possible

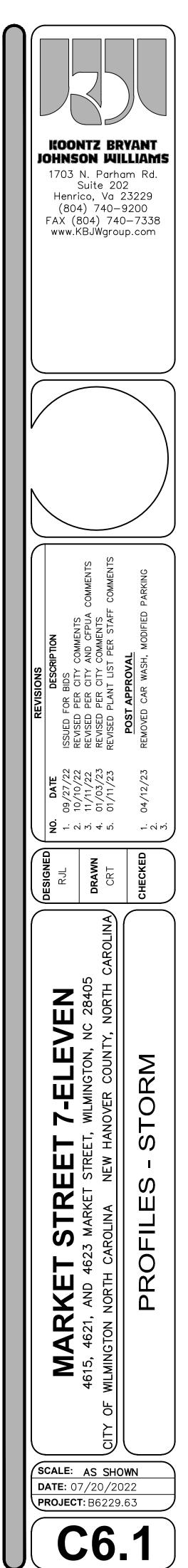
NORTH CAROLINA Environmental Quality

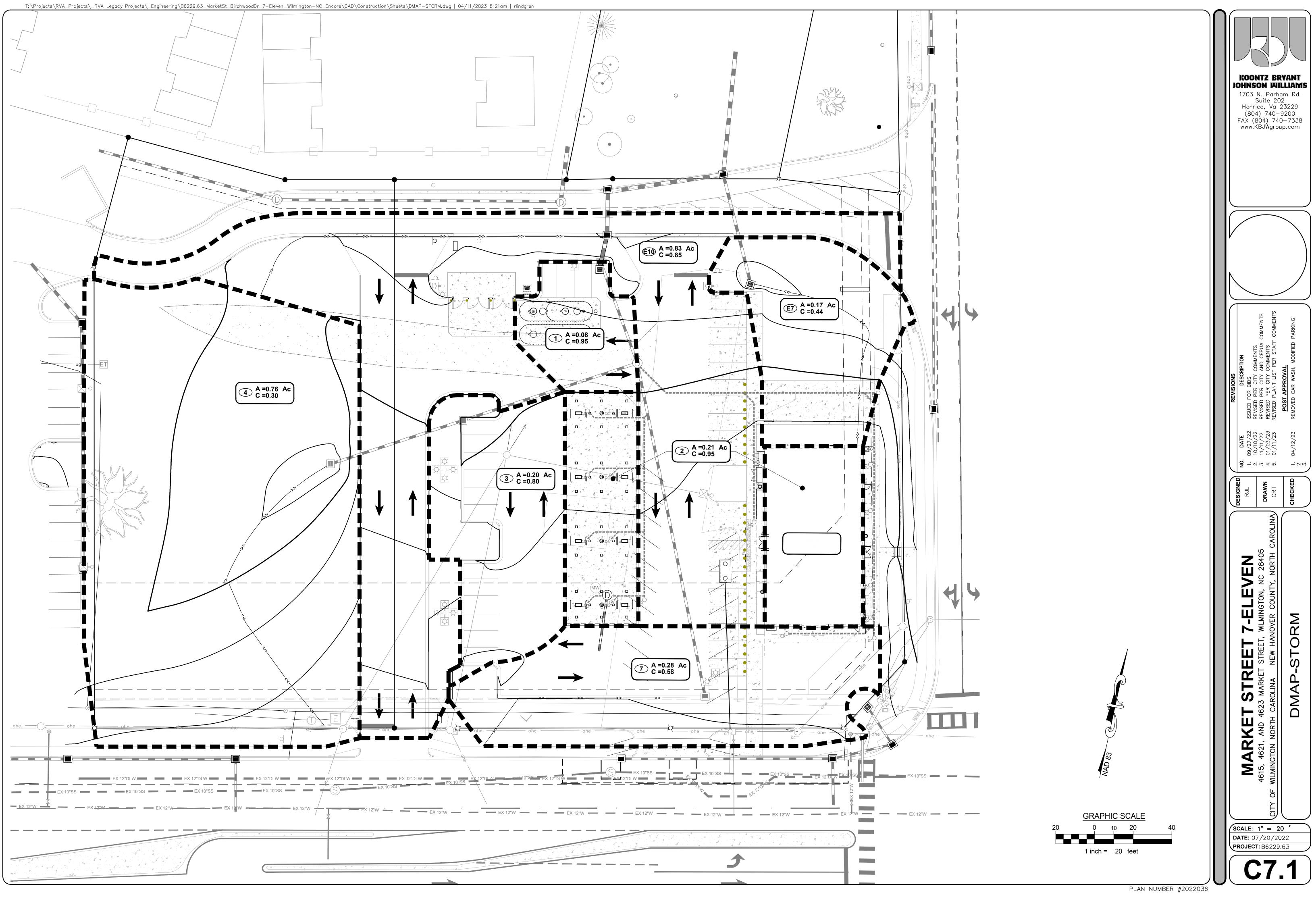
EFFECTIVE DATE:11/12/2020

DRAW DOWN OF SEDIMENT BAS use outlet structures that withdraw water from the old weather). Non-surface withdrawals from sedir urface withdrawal and the specific time periods or cordance with Part III, Section C, Item (2)(c) and (lutants from stormwater that is removed from the s	ment basins shall be allowed only when all of the fol conditions in which it will occur. The non-surface w (d) of this permit, sediment basin. Examples of appropriate controls i ing treatment devices described in Item (c) above,	Page: In for maintenance or close out unless this is infeasible. The circumstances in which it is not lowing criteria have been met: ithdrawal shall not commence until the E&SC plan authority has approved these items, nclude properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,	ICOONTZ BRYANT JOHNSON WILLIAMS 1703 N. Parham Rd. Suite 202 Henrico, Va 23229 (804) 740–9200 FAX (804) 740–7338 www.KBJWgroup.com
	cause deposition of sediment into waters of the Un	ited States.	
SELF-INSPECTION, RECOR <u>SECTION B: RECORDKEEPING</u> 1. E&SC Plan Documentation The approved E&SC plan as well as any appro- approved E&SC plan must be kept up-to-date to	RT III RDKEEPING AND REPORTING oved deviation shall be kept on the site. The throughout the coverage under this permit. The all be kept on site and available for inspection at	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 loss than 25 gallons but cannot be closered up within 24 hours	
Item to Document	Document Requirements	 They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or 	DMMENTS COMMENTS ARKING
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures are modified after initial installation.	 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 (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85. (d) Anticipated bypasses and unanticipated bypasses. (e) Noncompliance with the conditions of this permit that may endanger health or the anticipated bypasses 	REVISIONS DESCRIPTION DESCRIPTION DESCRIPTION DER CITY COMMENTS ED PER CITY COMMENTS ED PER CITY COMMENTS D PLANT LIST PER STAFF CO ST APPROVAL FD CAR WASH, MODIFIED PA
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	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	ATE ATE 7/22 ISSUEI 0/22 REVISE 1/23 REVISE 1/23 REVISE 2/23 REVISE
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368. Occurrence Reporting Timeframe (After Discovery) and Other Requirements (a) Visible • Within 24 hours, an oral or electronic notification.	E N N N N N N N N
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.	 sediment deposition in a stream or wetland Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case- by-case basis. 	LINA CRT CHECK
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	If the stream is named on the NC 303(d) list as impaired for sediment- related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.	28405 DRTH CAROL
2. Additional Documentation to be Kept on Sit In addition to the E&SC plan documents above site and available for inspectors at all times due Division provides a site-specific exemption bas this requirement not practical:	e, the following items shall be kept on the ring normal business hours, unless the	(b) Oil spills and release of hazardous substances per item 1(b)-(c) above • Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. (c) Anticipated • A report at least ten days before the date of the bypass, if possible.	LELEVE LMINGTON, NC 2 ETAILS
(a) This General Permit as well as the Certific	ate of Coverage, after it is received.	bypasses [40 CFR The report shall include an evaluation of the anticipated quality and effect of the bypass.	
record the required observations on the Insortion or a similar inspection form that includes a electronically-available records in lieu of the shown to provide equal access and utility a 3. Documentation to be Retained for Three Yea	ne required paper copies will be allowed if as the hard-copy records. ars pection records shall be maintained for a period	122.41(III)(0)]enerce of the bypass.(d) Unanticipated bypasses [40 CFR 122.41(II)(3)]• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(I)(7)]• Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). • Division staff may waive the requirement for a written report on a case- by-case basis.	MARKET STREE 515, 4621, AND 4623 MARKET STREE LMINGTON NORTH CAROLINA NEW H E&S NOTES AND
NCG-01 S	ELF INSPECTION		CITY OF WIL
			SCALE: N/A DATE: 07/20/2022 PROJECT: B6229.63









AASHTO Junction Loss Calculations

												JUN	СТІ	ON	LOS	S						
Line No	Inlet Id	Outlet WS Elev (ft)	Do (in)	Qo (cfs)	Lo (ft)	Sf (%)	Hf (ft)	Vo (ft/s)	Ho (ft)	Qi (cfs)	Vi (ft/s)	QiVi	Vi²/2g (ft)	Hi (ft)	Angle (deg)	Hb (ft)	Ht (ft)	1.3 Ht (ft)	0.5 Ht (ft)	Final H (ft)	Inlet WS Elev (ft)	Rim Elev (ft)
1	E8	38.09	30	12.13	63.76	0.088	0.06	2.47	0.02	11.09	3.53 †	39.15	0.19	0.07 2	76	0.13 ż	0.22			0.28	38.37	37.41
2	E9	38.27	24	11.09	60.24	0.240	0.14	3.53	0.05	10.52	3.35 1	35.25	0.17	0.06 3	80	0.12 3	0.23	- 1411	-	0.38	38.64	37.5
3	E10	38.66	24	10.52	22.13	0.216	0.05	3.35	0.04	5.68	1.81†	10.29	0.05	0.02 4	12	0.01 4	0.07	0.09	*	0.14	38.80	37.69
\$	1	38.93	24	5.68	15.83	0.063	0.01	1.81	0.01	5.19	2.94 †	15.27	0.13	0.05 s	33	0.06 s	0.12	101	3	0.13	39.05	38.59
5	2	38.97	18	5.19	58.84	0.245	0.14	2.94	0.03	2.72	1.54 †	4.19	0.04	0.01 6	99	0.03 6	0.07			0.22	39.19	39.75
6	3	39.28	18	2.72	92.77	0.067	0.06	1.54	0.01	1.61	1.32 f	2.12	0.03	0.01 7	0	0.00 7	0.02	0.03	+	0.09	39.37	39.38
7	4	39.38	15	1.61	70.15	0.063	0.04	1.32	0.01	1.00						24	0.01	0.01	*	0.05	39.44	38.80
8	7	39.30	15	1.29	171.11	0.040	0.07	1.05	0.01	-	\sim	-	200		5 3 5		0.01	0.01	হ	0.07	39.38	41.20

Project Name: Market St 7-Eleven

Inlet ID	Junct Type	Curb Length	Grate Len	Grate Width	Drain Area	Runoff Coeff	Incr CxA	Total C x A	i Inlet	i Syst	Incr Q	Q Carry	Gutter Slope	Cross SI, Sx	Gutter Width	Cross SI, Sw	Local Depr	Inlet Eff	Q Capt	Q Bypass	Inlet Depth	Throat Height	Inlet Spread	Inlet Loc
		(ft)	(ft)	(ft)	(ac)	(C)			(in/hr)	(in/hr)	(cfs)	(cfs)	(ft/ft)	(ft/ft)	(ft)	(ft/ft)	(in)	(%)	(cfs)	(cfs)	(ft)	(in)	(ft)	
8	Comb.	2.98	2.98	1.98	0.090	0.95	0.09	1.78	9.69	6.83	0.83	0.00	Sag	0.0550	1.50	0.0300	2.0	100	0.83	0.00	0.28	6.0	2.14	Sag
9	Comb.	2.98	2.98	1.98	0.090	0.95	0.09	1.62	9.69	6.86	0.83	0.00	0.017	0.0360	1.50	0.0300	2.0	80	0.66	0.17	0.24	6.0	1.98	On Grd
10	Comb.	2.98	2.98	1.98	0.830	0.85	0.71	1.53	8.02	6.87	5.66	0.00	Sag	0.0200	1.50	0.0300	2.0	100	5.66	0.00	0.55	6.0	19.16	Sag
	Comb.	2.98	2.98	1.98	0.080	0.95	0.08	0.83	9.69	6.88	0.74	0.00	Sag	0.0125	1.50	0.0300	2.0	100	0.74	0.00	0.23	6.0	5.26	Sag
ġ.	MH	3343	0.00	3363	0.210	0.95	0.20	0.75	9.69	6.93	1.93	-		30.02		38682	202	\$8552		38662		38333		0000
3	Comb.	2.98	2.98	1.98	0.200	0.80	0.16	0.39	9.69	7.01	1.55	0.00	Sag	0.0260	1.50	0.0300	2.0	100	1.55	0.00	0.32	6.0	5.73	Sag
1	Dp-Grate		1000	2.00	0.760	0.30	0.23	0.23	7.08	7.08	1.61	0.00	Sag	0.0400	2.50	0.0400	100.5	100	1.61	0.00	0.17	(1995)	10.76	Sag
7	Comb.	2.98	2.98	1.98	0.280	0.58	0.16	0.16	7.94	7.94	1.29	0.00	Sag	0.0125	1.50	0.0300	2.0	100	1.29	0.00	0.28	6.0	9.26	Sag

AASHTO Junction Loss Calculations

03-21-2023 Stormwater Studio 2023 v 3.0.0.31 JUNCTION LOSS
 Do
 Qo
 Lo
 Sf
 Hf
 Vo
 Ho
 Qi
 Vi
 QiVi
 Vi²/2g
 Hi
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 Ht
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 Final H
 Inlet WS Elev
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 0.01
 0.01
 40.08
 41.20

 9
 E7
 38.66
 18
 0.83
 59.23
 0.006
 0.00
 0.47
 0.00
 0.00
 0.00
 0.00
 38.66
 37.48

 Return Period = 50-yrs. , Ho = Ko(Vo²/2g), Hi = 0.35(Vi²/2g), Hb = Kb(Vi²/2g), Ht = Ho + Hi + Hb, Final H = Hf + Ht, ° Critical, " Normal, f Full Project File: Market Street 7-Eleven.sws

Project Name: Market St 7-Eleven

Inlet ID	Junct Type	Curb Length	Grate Len	Grate Width	Drain Area	Runoff Coeff	Incr CxA	Total C x A	i Inlet	i Syst	Incr Q	Q Carry	Gutter Slope	Cross SI, Sx	Gutter Width	Cross SI, Sw	Local Depr	Inlet Eff	Q Capt	Q Bypass	Inlet Depth	Throat Height	Inlet Spread	Inlet Loc
		(ft)	(ft)	(ft)	(ac)	(C)			(in/hr)	(in/hr)	(cfs)	(cfs)	(ft/ft)	(ft/ft)	(ft)	(ft/ft)	(in)	(%)	(cfs)	(cfs)	(ft)	(in)	(ft)	
(Comb.	2.98	2.98	1.98	0.090	0.95	0.09	1.78	11.88	8.49	1.02	0.00	Sag	0.0550	1.50	0.0300	2.0	100	1.02	0.00	0.30	6.0	2.51	Sag
	Comb.	2.98	2.98	1.98	0.090	0.95	0.09	1.62	11.88	8.53	1.02	0.00	0.017	0.0360	1.50	0.0300	2.0	77	0.78	0.24	0.26	6.0	2.48	On Grd
6	Comb.	2.98	2.98	1.98	0.830	0.85	0.71	1.53	9.89	8.54	6.98	0.00	Sag	0.0200	1.50	0.0300	2.0	100	6.98	0.00	0.62	6.0	22.66	Sag
	Comb.	2.98	2.98	1.98	0.080	0.95	80.0	0.83	11.88	8.55	0.90	0.00	Sag	0.0125	1.50	0.0300	2.0	100	0.90	0.00	0.25	6.0	6.86	Sag
	MH		300	3355	0.210	0.95	0.20	0.75	11.88	8.60	2.37	100		5000		50.00		5000		3000		30005	1000	540005
	Comb.	2.98	2.98	1.98	0.200	0.80	0.16	0.39	11.88	8.69	1.90	0.00	Sag	0.0260	1.50	0.0300	2.0	100	1.90	0.00	0.35	6.0	6.89	Sag
	Dp-Grate		10000	2.00	0.760	0.30	0.23	0.23	8.78	8.78	2.00	0.00	Sag	0.0400	2.50	0.0400	0.000	100	2.00	0.00	0.19	1555	12.03	Sag
	Comb.	2.98	2.98	1.98	0.280	0.58	0.16	0.16	9.78	9.78	1.59	0.00	Sag	0.0125	1.50	0.0300	2.0	100	1.59	0.00	0.30	6.0	10.86	Sag

10 YEAR STORM CALCULATIONS

LD-229 Report Stormwater Studio 2023 v 3.0.0.31

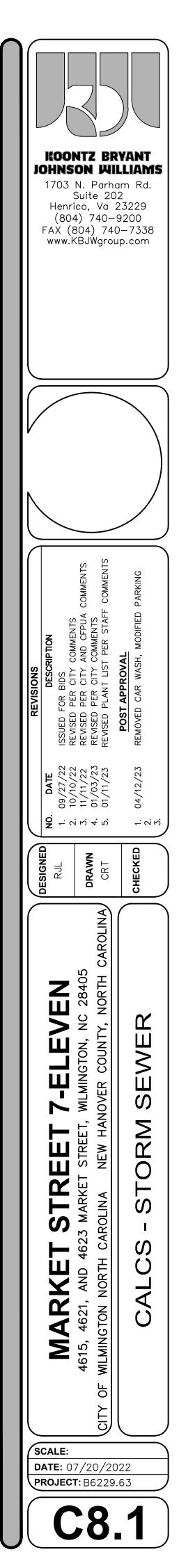
Inlet ID	Inlet ID DownStr	Drain Area	Runoff Coeff	Incr CxA	Total C x A	Inlet Time	Tc System	i Inlet	Total Runoff	Invert Up	Invert Dn	Line Length	Line Slope	Line Size	Capac. Full	Vel Ave	Pipe Travel	
		(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)	(cfs)	(ft/s)	(min)	
E8		0.090	0.95	0.09	1.78	5.0	14.5	9.69	12.13	33.01	32.79	63.76	0.35	30	24.09	2.47	0.22	
E9	E8	0.090	0.95	0.09	1.62	5.0	14.3	9.69	11.09	33.55	33.10	60.24	0.75	24	19.55	3.53	0.16	
E10	E9	0.830	0.85	0.71	1.53	9.6	14.3	8.02	10.52	33.69	33.55	22.13	0.63	24	17.99	3.35	0.06	
1	E10	0.080	0.95	0.08	0.83	5.0	14.2	9.69	5.68	33.87	33.79	15.83	0.51	24	16.08	1.81	0.06	
2	1	0.210	0.95	0.20	0.75	5.0	14.0	9.69	5.19	34.39	34.07	58.84	0.55	18	7.77	2.94	0.21	
3	2	0.200	0.80	0.16	0.39	5.0	13.6	9.69	2.72	35.15	34.64	92.77	0.55	18	7.79	1.54	0.39	
4	3	0.760	0.30	0.23	0.23	13.3	13.3	7.08	1.61	35.64	35.25	70.15	0.56	15	4.81	1.32	0.33	
7	2	0.280	0.58	0.16	0.16	9.9	9.9	7.94	1.29	37.88	34.64	171.11	1.89	15	8.89	1.05	0.55	

50 YEAR STORM CALCULATIONS

LD-229 Report

Notes: IDF File = MarketSt.idf, Return Period = 50-yrs.

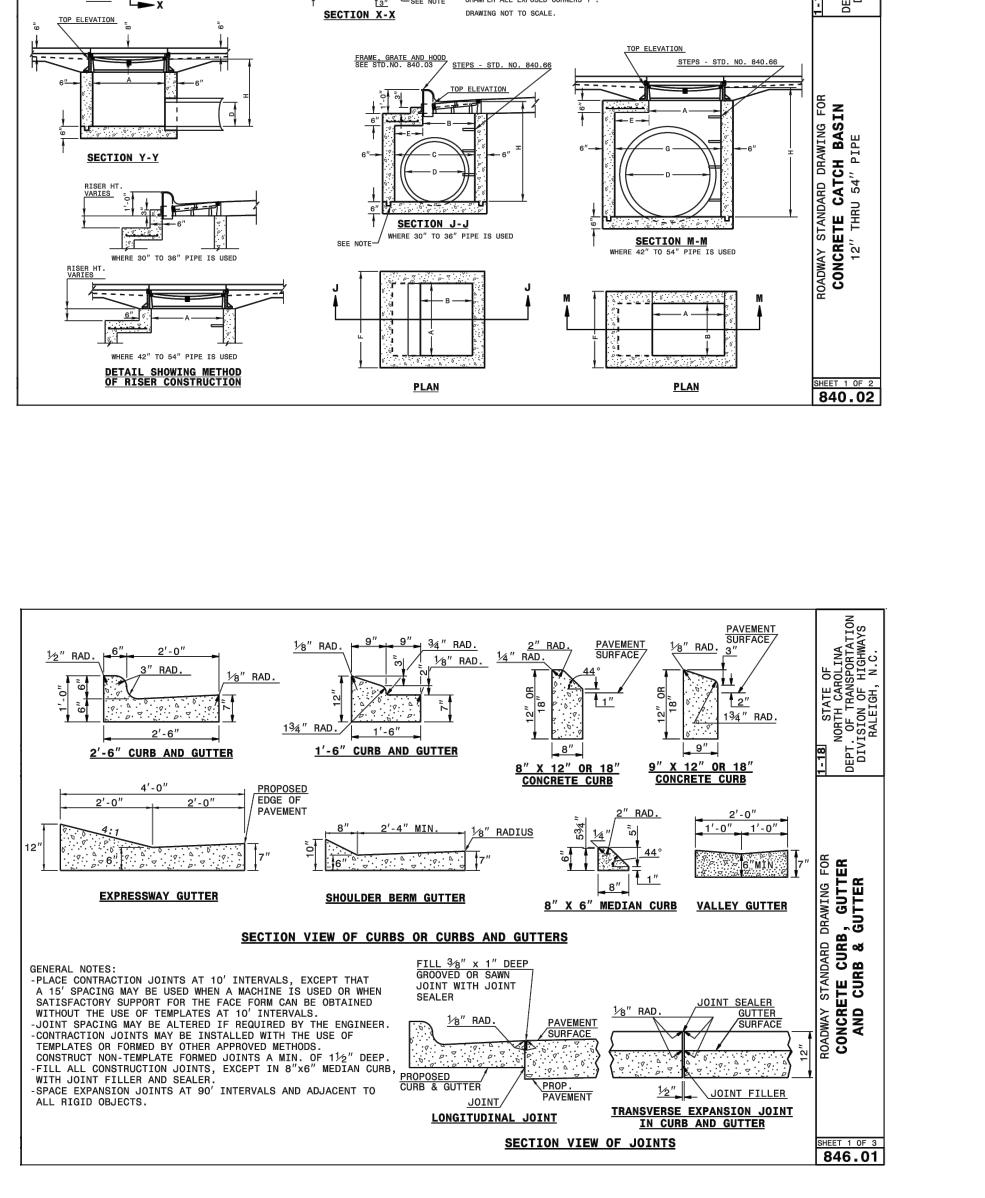
Inlet ID	Inlet ID DownStr	Drain Area	Runoff Coeff	Incr CxA	Total C x A	Inlet Time	Tc System	i Inlet	Total Runoff	Invert Up	Invert Dn	Line Length	Line Slope	Line Size	Capac. Full	Vel Ave	Pipe Travel	
		(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)	(cfs)	(ft/s)	(min)	
E8		0.090	0.95	0.09	1.78	5.0	14.4	11.88	15.09	33.01	32.79	63.76	0.35	30	24.09	3.07	0.21	
E9	E8	0.090	0.95	0.09	1.62	5.0	14.3	11.88	13.79	33.55	33.10	60.24	0.75	24	19.55	4.39	0.15	
E10	E9	0.830	0.85	0.71	1.53	9.6	14.2	9.89	13.08	33.69	33.55	22.13	0.63	24	17.99	4.16	0.06	
1	E10	0.080	0.95	0.08	0.83	5.0	14.2	11.88	7.06	33.87	33.79	15.83	0.51	24	16.08	2.25	0.05	
2	1	0.210	0.95	0.20	0.75	5.0	14.0	11.88	6.45	34.39	34.07	58.84	0.55	18	7.77	3.65	0.20	
3	2	0.200	0.80	0.16	0.39	5.0	13.6	11.88	3.37	35.15	34.64	92.77	0.55	18	7.79	1.91	0.36	
4	3	0.760	0.30	0.23	0.23	13.3	13.3	8.78	2.00	35.64	35.25	70.15	0.56	15	4.81	1.63	0.31	
7	2	0.280	0.58	0.16	0.16	9.9	9.9	9.78	1.59	37.88	34.64	171.11	1.89	15	8.89	1.30	0.52	
E7	E8	0.170	0.44	0.07	0.07	6.7	6.7	11.04	0.83	34.32	33.06	59.23	2.13	18	15.32	0.47	0.21	

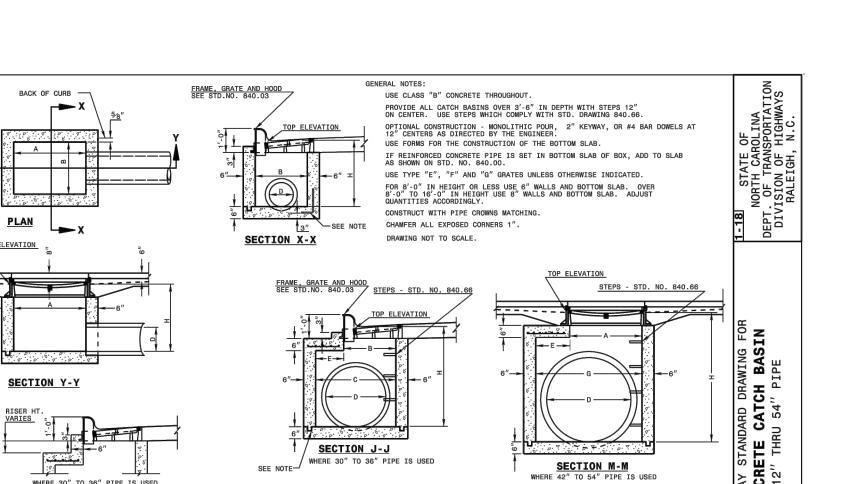


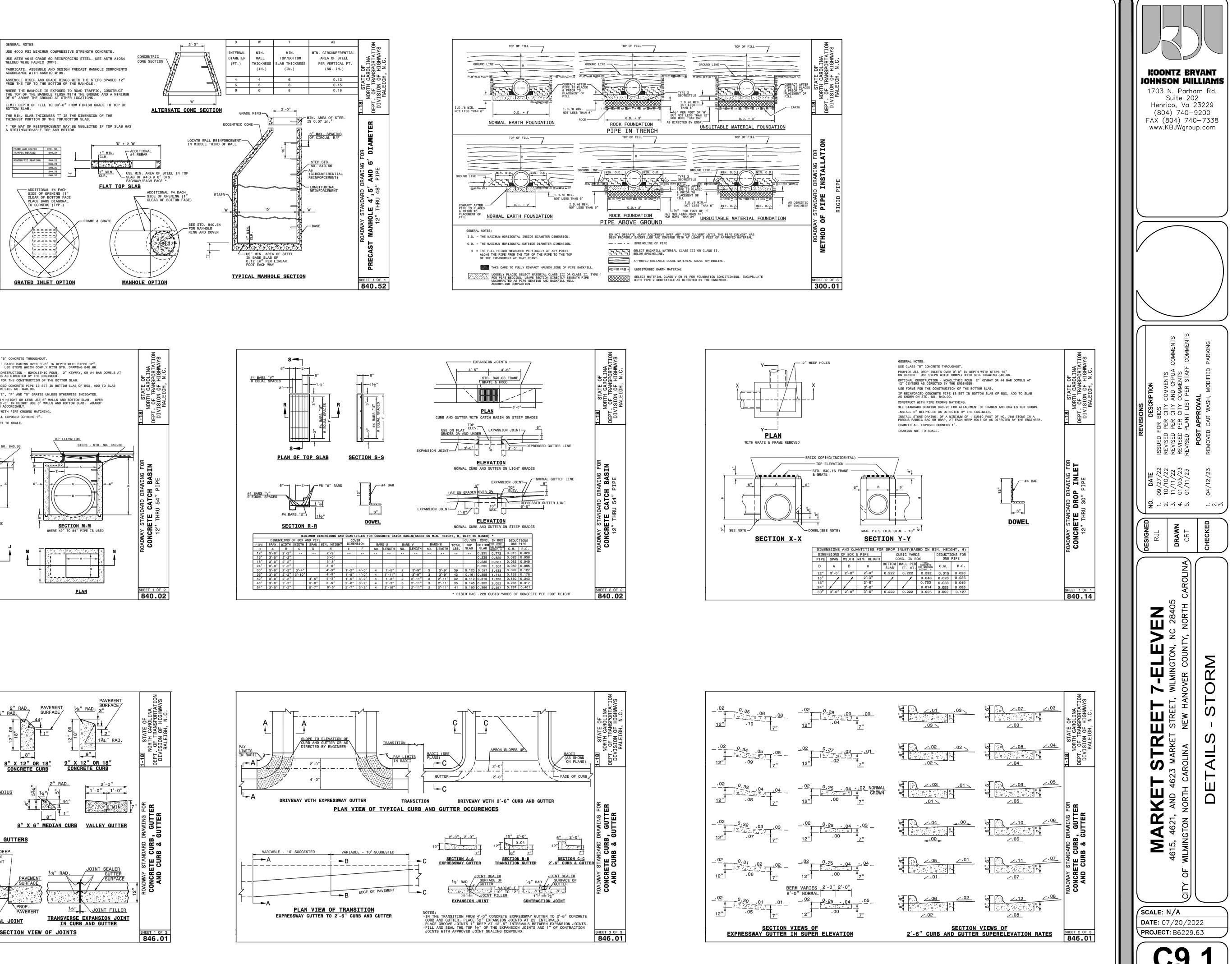
Project Name:	Market	St 7-Elev	/en
roject nume.	manet	DL / LIC	1201

Project Name: Market St 7-Eleven

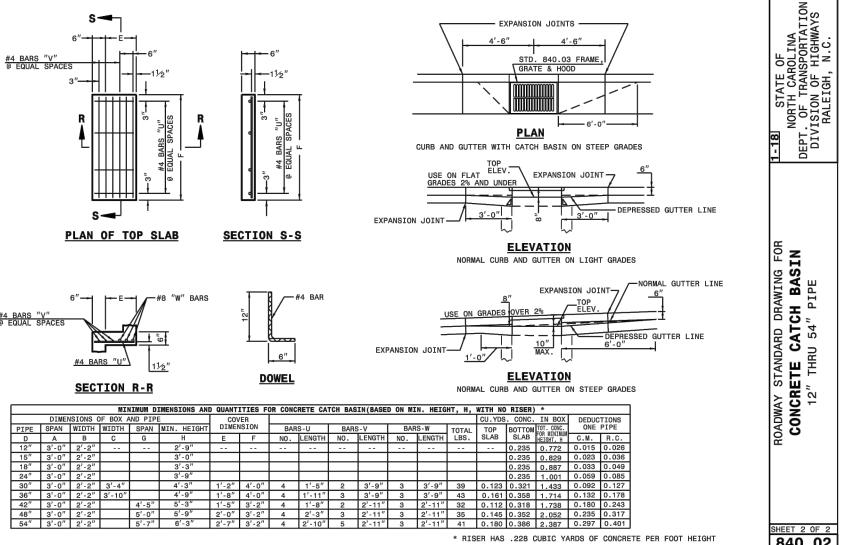
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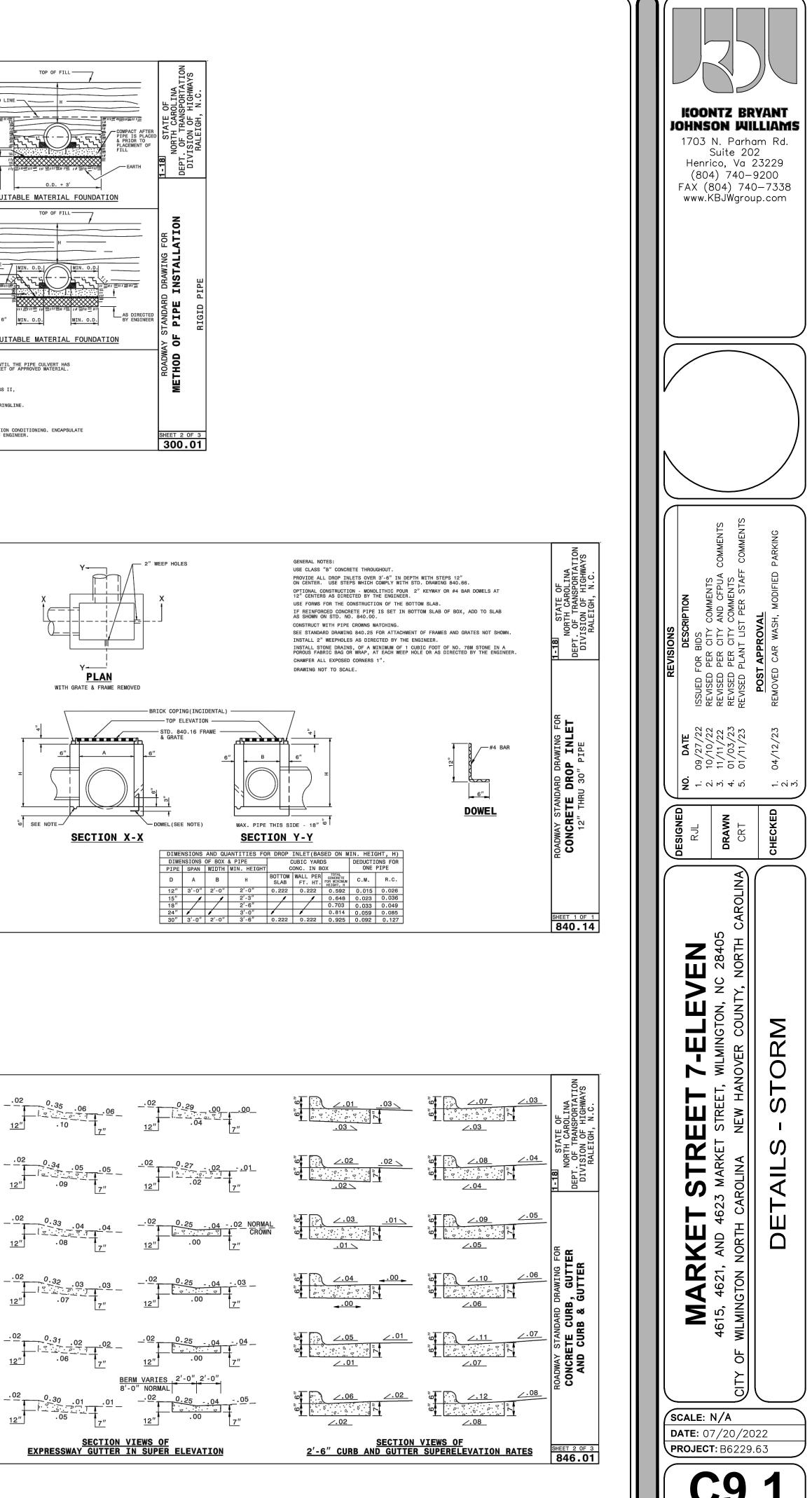


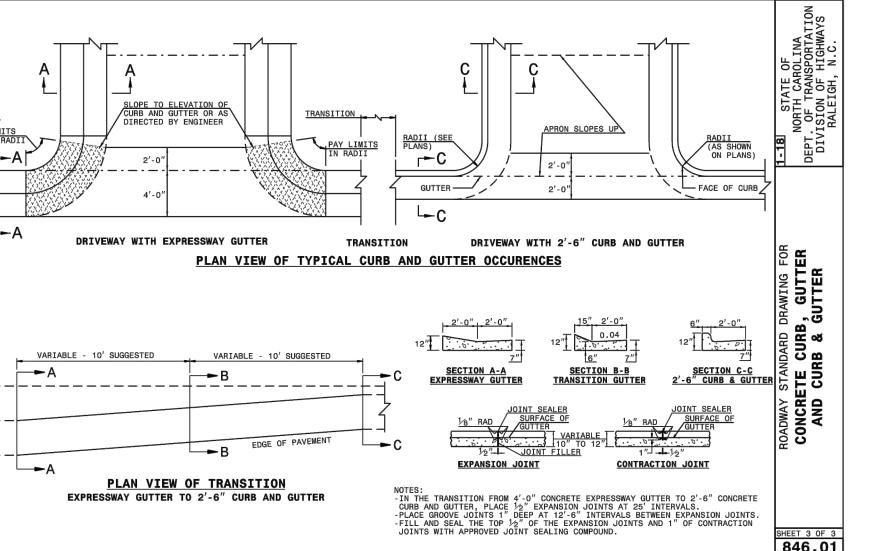


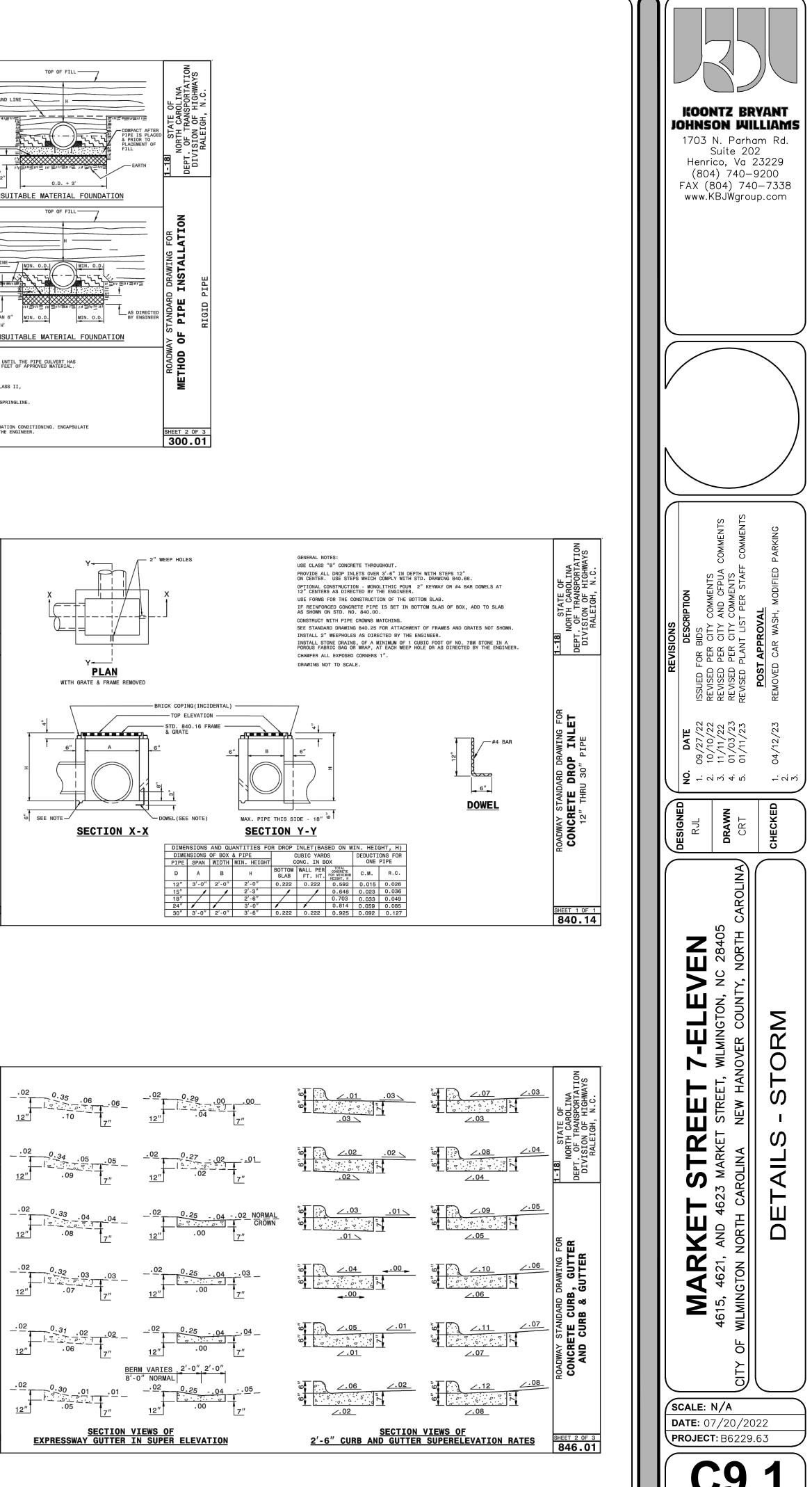


T: \Projects\RVA_Projects_RVA Legacy Projects_Engineering\B6229.63_MarketSt_BirchwoodDr_7-Eleven_Wilmington-NC_Encore\CAD\Construction\Sheets\DETAILS.dwg | 04/11/2023 8:21am | rlindgren

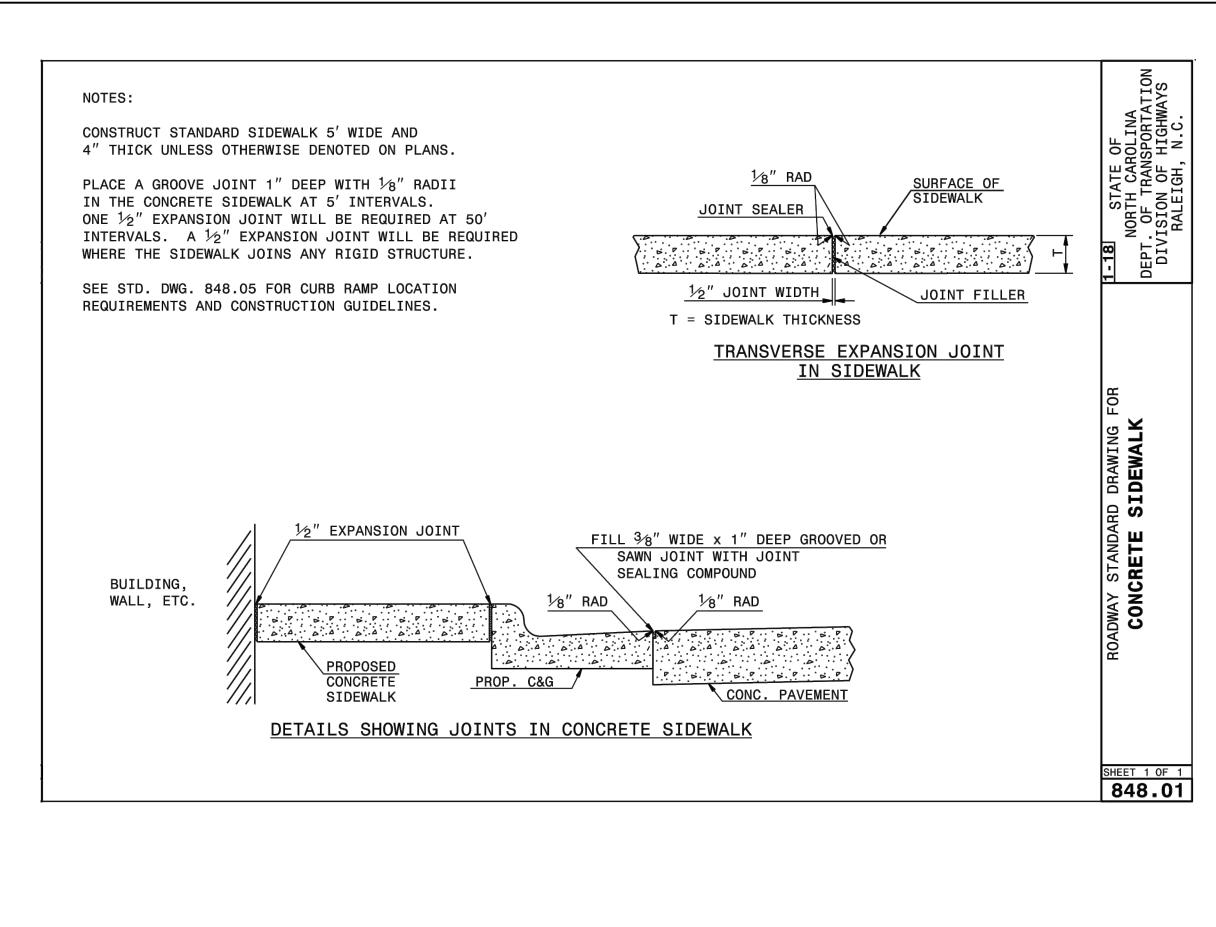


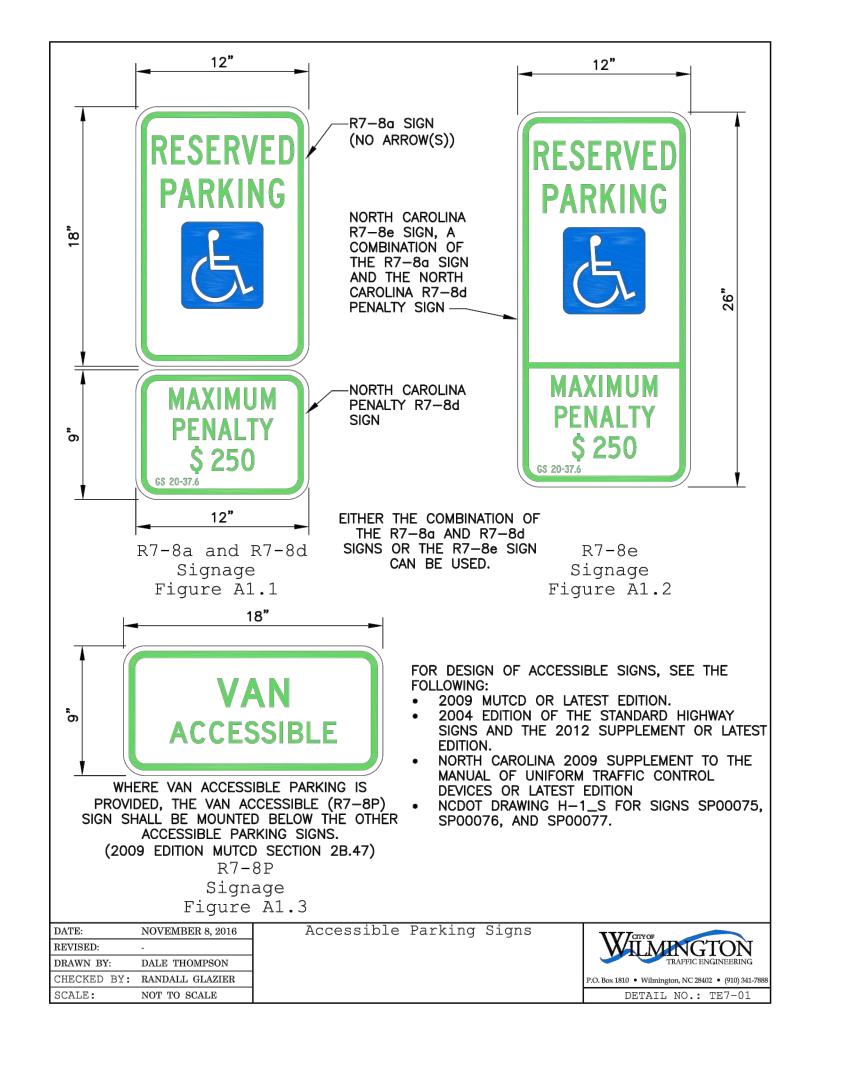


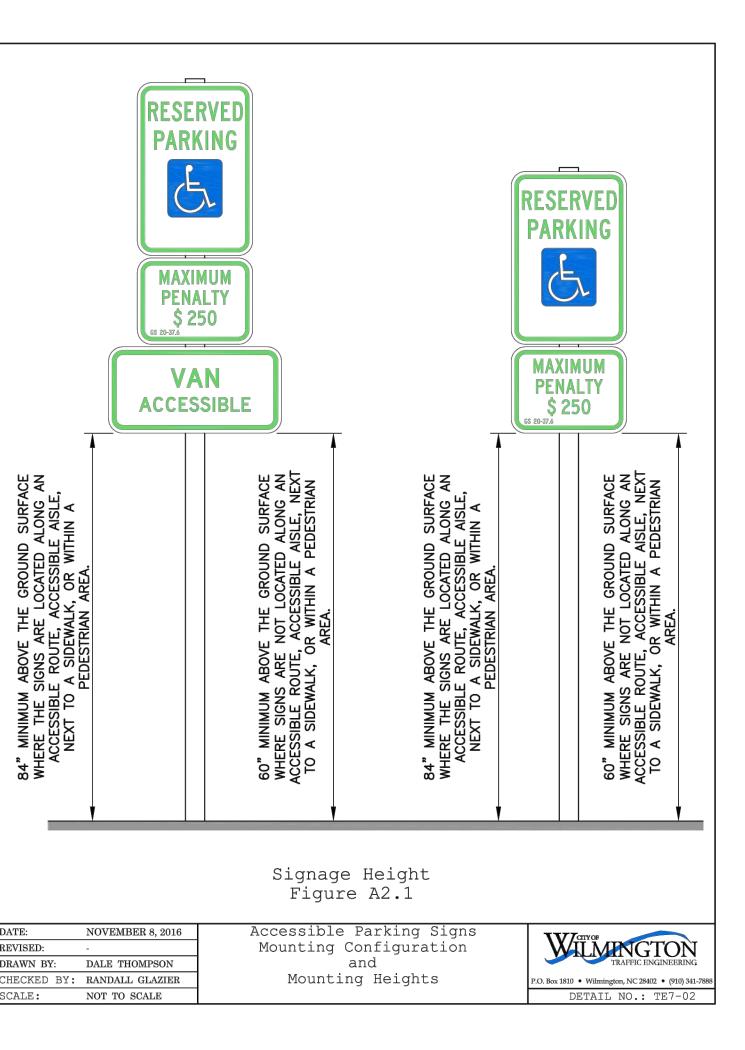




PLAN NUMBER #2022036





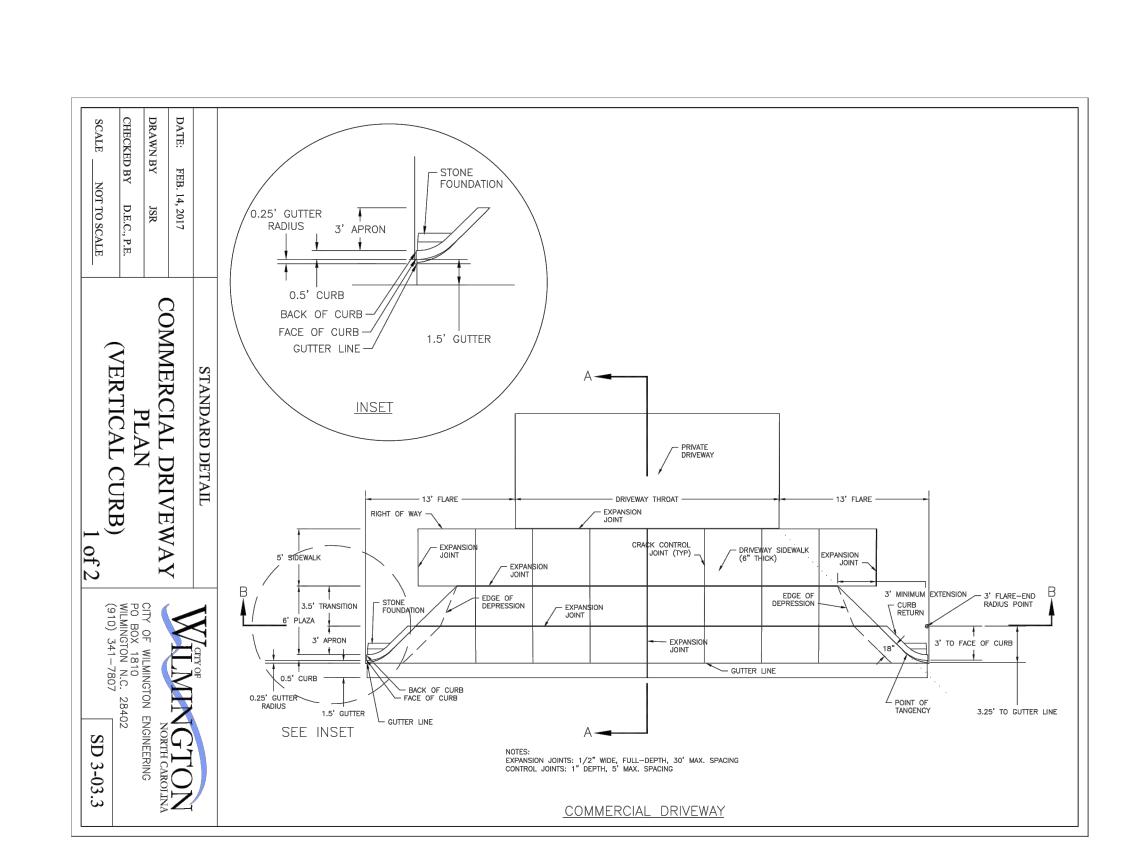


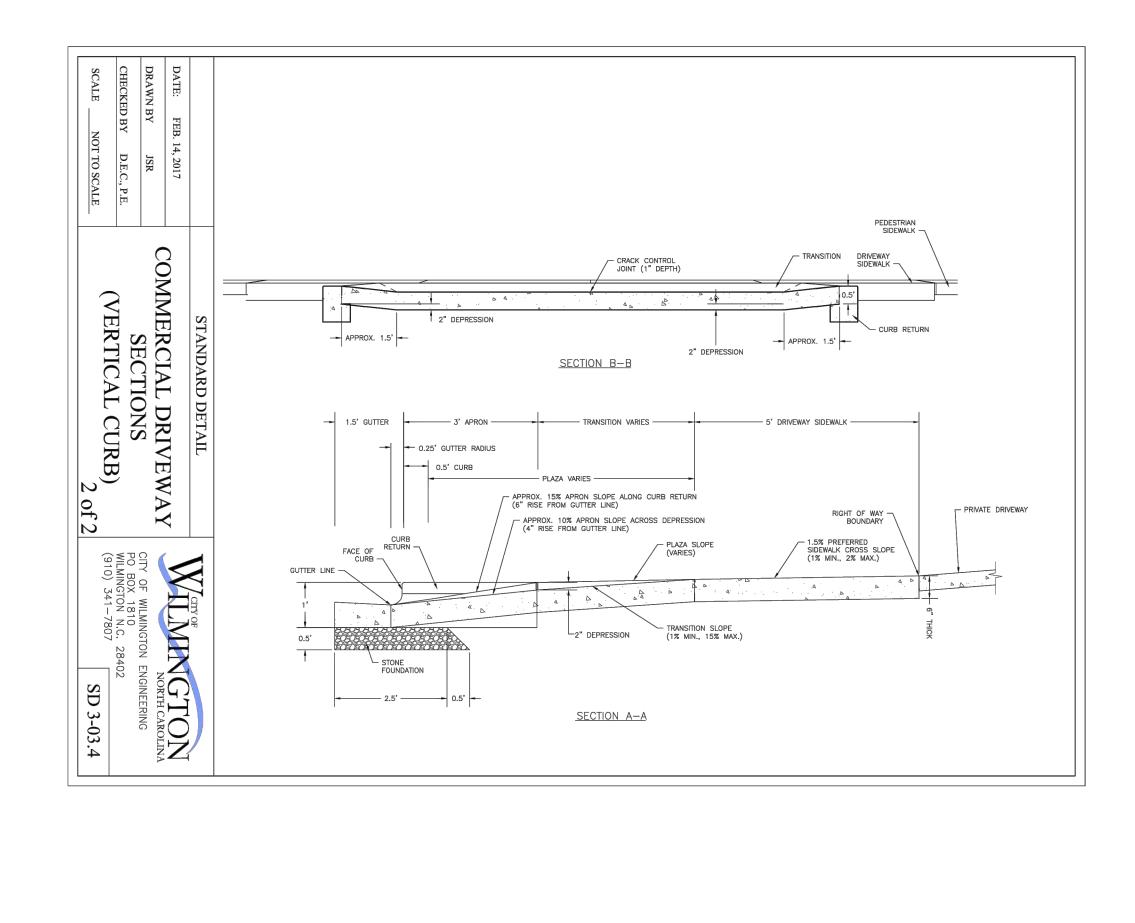
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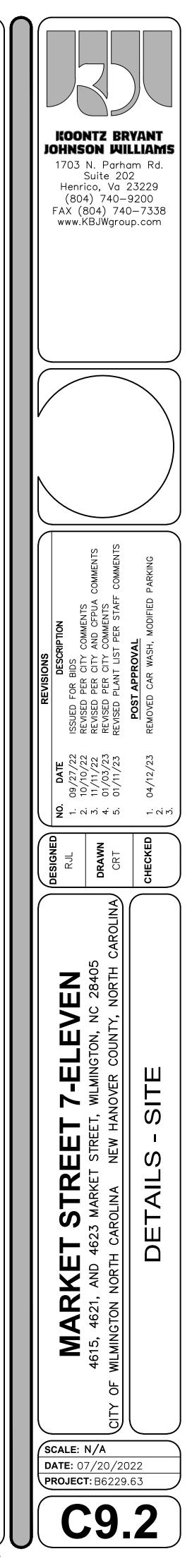
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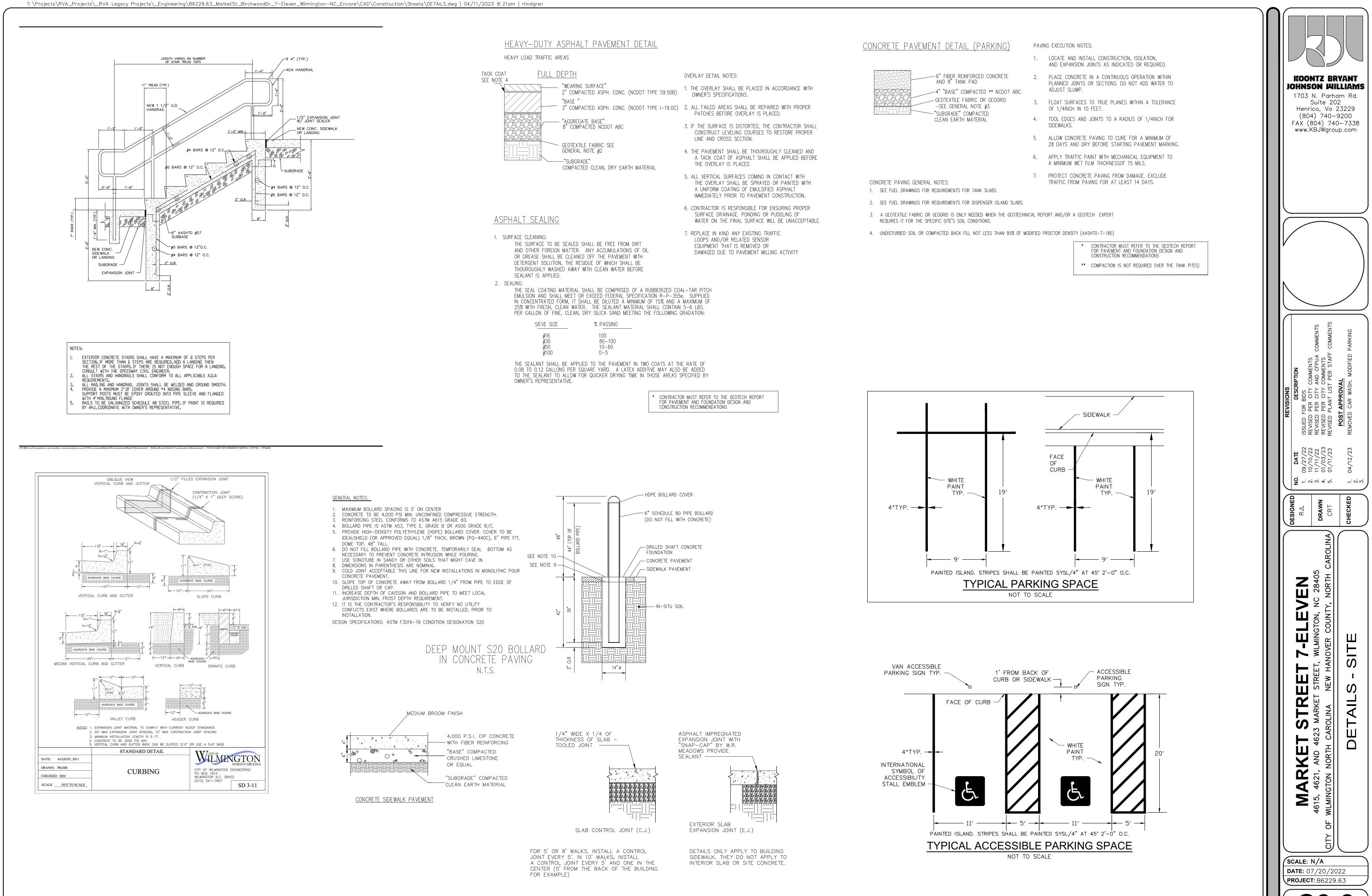
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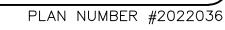
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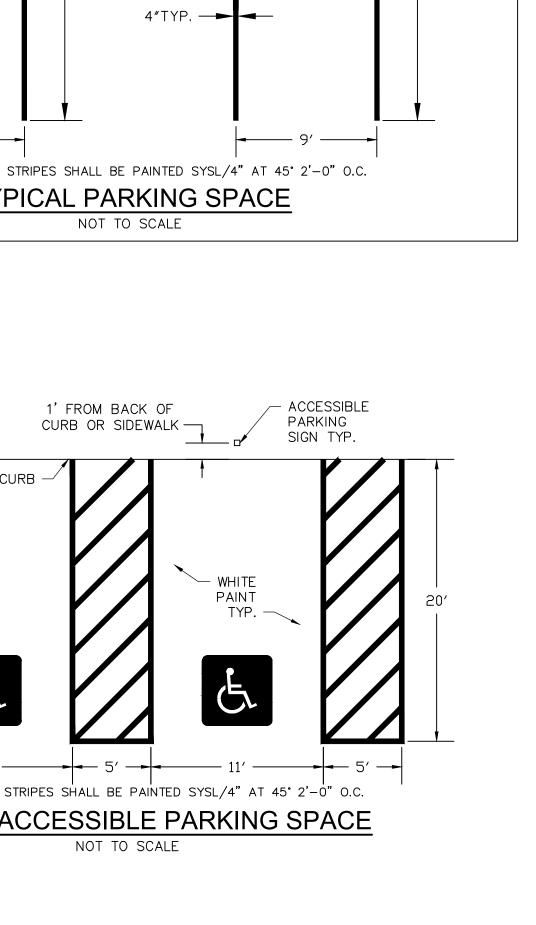




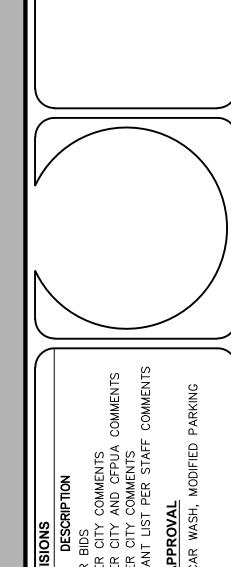


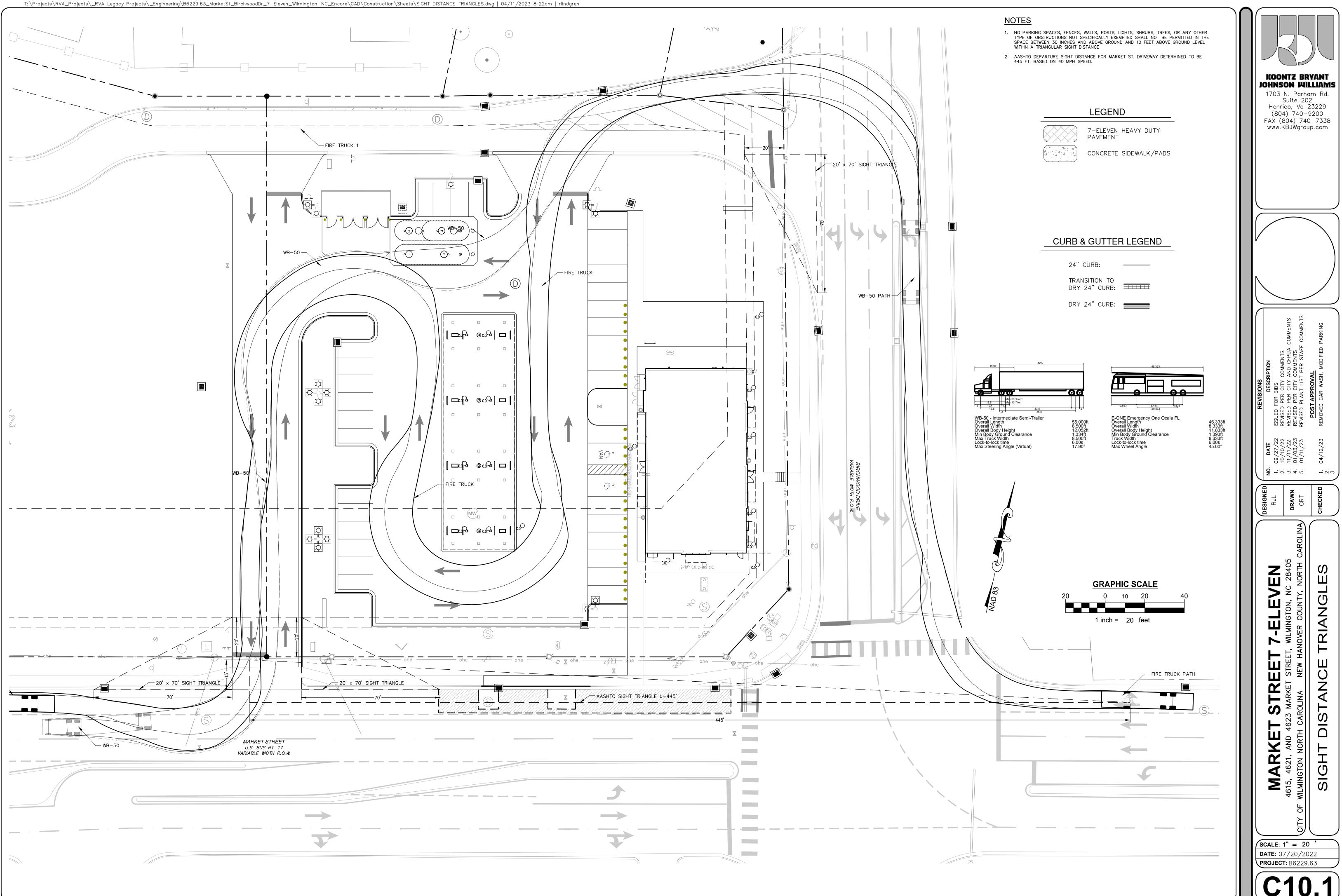












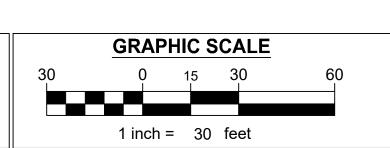
PLAN NUMBER #2022036

	Luminaire Schedul	e								
	Symbol Qty	Label	Arrangement	LMF Lum. Lume	ens Lum.	. Watts Par	rt Number			
	24	CPY-FLAT-13L CPY-FLAT-C	SINGLE	1.000 13750 1.000 4590	86			57K7-F-UL-DM-V 7K7-F-UL-DM-B2		
		XSPLG-4ME	SINGLE	1.000 23800	184			/E-24L-57K7-UL		
	1. 3	XSPLG-4ME-2	2 @ 90°	1.000 23600	184	XS	PLG-D-HT-4M	/IE-24L-57K7-UL	-BZ-N	
	● ↓ 0 ■ ↓ 7	XSPLG-4ME-4 XSPW	4 @ 90° WALL MOUNT	1.000 23600 1.000 4270	184			/IE-24L-57K7-UL //IE-4L-57K-UL-B		
				1.000 4270	51			12-4L-37 N-0L-D	<u></u>	
			Calculation Sun	nmary; 1.00 LLF						
			Label		Units		Max	Min	Avg/Min	M
			All Calc Points Gas Canopy		Fc Fc		35.9 59	0.0	N.A. 1.34	N.
			Paved Parking		Fc		23.5	1.0	7.37	23
			Fixture Mo	unting Height: 2	0' AFG (17'	' Pole + 3.0' C	concrete F	Base)		
b.o	0.1 0.1 0.1 0.0 0.0		Pole Sched					2000)		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				1-17-CW-BS-OT		-	STEEL SC	QUARE PC	DLE)	
b.o				ooles meet 120 M Equipment:	WPH SUSTAI	inea winas.				
b.0 b			(1) PD-1H4	BZ - (Single Hor BZ(90) - (Twin H		• ·	°)			
b.0 b	I		(2) PD-4H4	BZ(90) - (Twin H	lorizontal T	enon - 4@90°	°)			
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \\ \begin{array}{c} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{$				MER TO VERIFY UE NUMBER PR)		
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1	(SPW IH: 11 15.0 8.4 2.8	t]6								
0.0 0	CPY-FLAT-C MH: 12 17.0 9.6 3.2	b.7 b.2 b.7 b.2								
b.0 b	12.5 6.8 2.7									
$\begin{bmatrix} 1 & 1 & 2 & 3 & 2 & 3 & 3 & 3 & 3 & 2 & 3 & 3$	CPY-FLAT-C MH: 12 20 0 11.9 3.2 3.1 5.4 2.2	ð.7 ð.2		BOM: C	omplete	Part Desc	ription	1		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 .3 6 .5 3 .4 1 .6			24 CPY25	50-C-13L	57K7-F-U	JL-DM-\	WH-HZ		
b.o				09 CPY25	50-C-4L-	57K7-F-UL	-DM-B	Z-HZ		
b.0 b.1 b.1 b.2 b.4 b.4 b.8 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.1 b.1 b.2 b.4 b.4 b.8 b.2 b.8 b.0 b.8 b.2 b.8 b.0 b.8 b.2 b.8 b.0 b.8 b.2 b.8 b.7 b.8 b.8 b.8 b.8 b				07 XSPW	- B-WM -3	BME-4L-57	K-UL-E	3Z		
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0	, , , , , , , , , , , , , , , , , , , ,			16 XSPLO	G-D-HT-4	IME-24L-5	7K-UL-	-BZ-N		
	0 <u>2 0 2 0.1</u> 0.1 0.1 0.1	0.1 0.0		06 SSS-4	-11-17-C	W-BS-OT-	-N-BZ			
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				01 PD-1H	4BZ					
b.o	0.1 0.1 0.1 0.0 0.0 0.0	5.0 5.0		03 PD-2H	4BZ(90)					
				02 PD-4H	4BZ(90)					
CREE CREE CONTROL CONTROL	ngton, NC - E>	ΚT			Layout By Collin Wit		30	0 1	C SCALE 5 30	
from these design parameters may affect field										

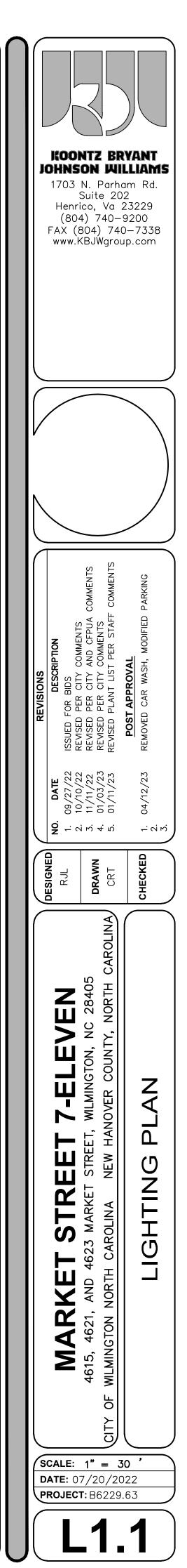
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	1 5

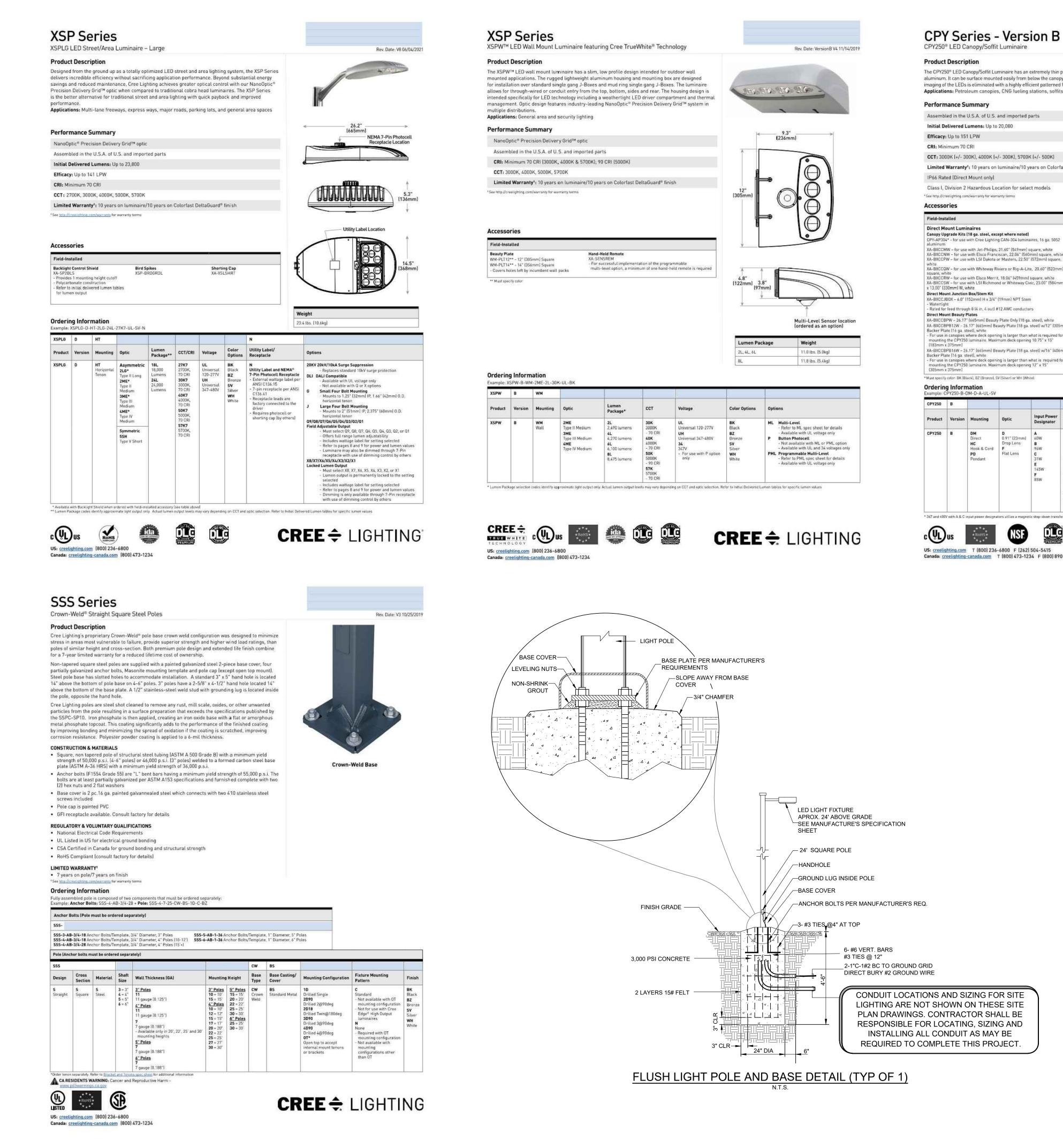
Luminaire Sc	chedule						
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. V	√atts
	24	CPY-FLAT-13L	SINGLE	1.000	13750	86	
₽	9	CPY-FLAT-C	SINGLE	1.000	4590	29	
(O)	1	XSPLG-4ME	SINGLE	1.000	23800	184	
₽	3	XSPLG-4ME-2	2 @ 90°	1.000	23600	184	
•	2	XSPLG-4ME-4	4 @ 90°	1.000	23600	184	
	7	XSPW	WALL MOUNT	1.000	4270	31	
			Calculation Summ	ary; 1.00 I	LF		
		/	Label			Linite	A.v.a

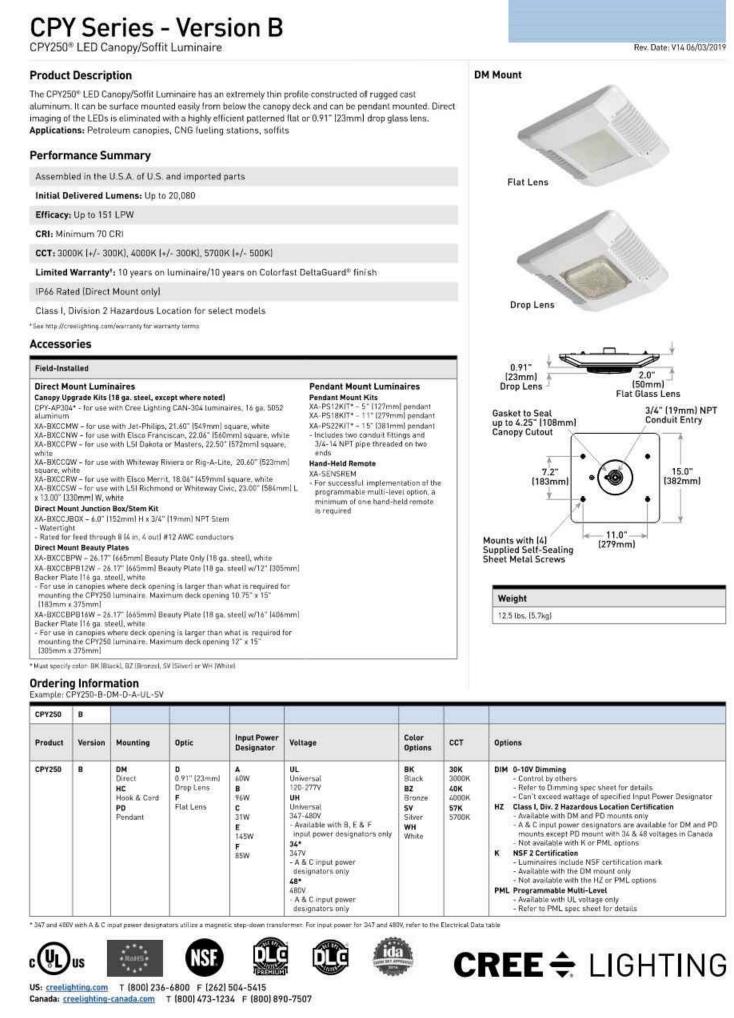
Label	Units	Avg	Max	Min	Avg/Min	Max/Min			
All Calc Points	Fc	3.87	35.9	0.0	N.A.	N.A.			
Gas Canopy	Fc	48.32	59	36	1.34	1.64			
Paved Parking	Fc	7.37	23.5	1.0	7.37	23.50			







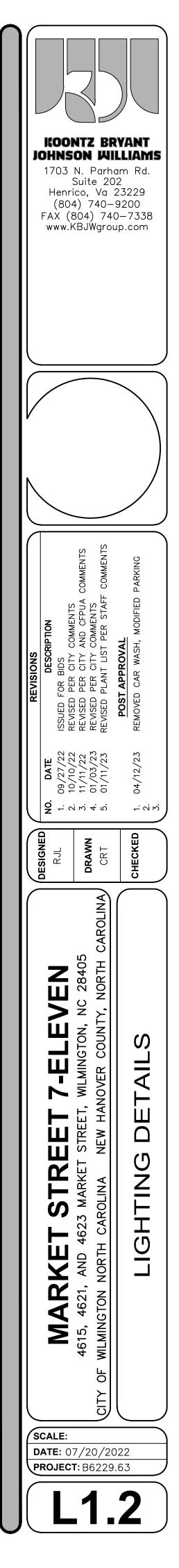




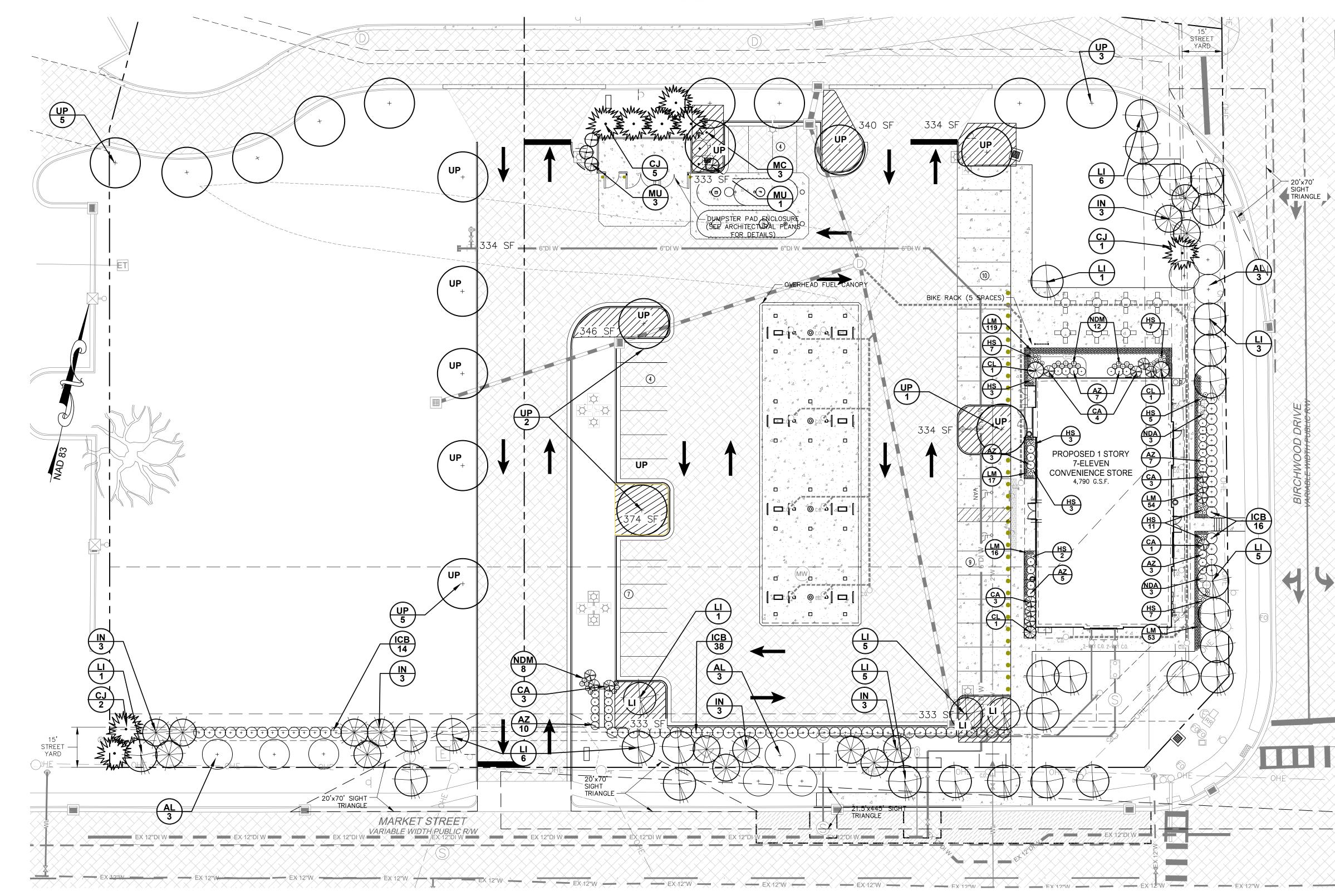
NOTES

1. ALL FIXTURES ARE FULL CUT-OFF.

2. VOLTAGE OF PHOTOCELL TO BE DETERMINED BY CONTRACTOR BASED ON AVAILABLE VOLTAGE ON THE SITE.



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KEY	BOTANICAL NAME	COMMON NAME	QTY.	MINIMUM SIZE CALIPER HEIGHT/SPREAD	ROOT	REMARKS		IECTED T			7-Eleven - Market Market Street Fro	Street Wilmington,	NC		
C	ANOPY TREES (DECIDUOUS)					* /	QUAN:	x SF/TREE	E =	TOTAL:	souther and the second second second second second second	All the set of the set	1		
UP UI	Imus parvifolia `Emer II '	Allee' Lacebark Elm	20	2" Cal.	B&B	Matched, Well Branched	20	707		14,140	Frontage Planting	Length = 387.1	LF		
	NDERSTORY TREES (DECIDUOUS)		_		-	T					Required Streetsca	pe Plantings:			
	melanchier canadensis `Autumn Brilliance'	Autumn Brilliance Serviceberry	9	8' Ht.	B&B	Matched, Well Branched	9	314		2,826	Planting Type	Spacing	X Buffer Length	=	No. Required
LI La	agerstroemia indica `Whit II'	Dynamite® Crape Myrtle	32	8' Ht.	B&B	Multi-Stem, 3 Stem Min. Well Branched	32	314		10,048		1 per 100 Linear Feet	x 387 Linear feet		4 Each*
							Total D	eciduous Tre	e Canopy	27,014	Large Deciduous Trees Small Deciduous Trees			3.87 23.23	
U	NDERSTORY TREES (EVERGREEN)						QUAN:	x SF/TREE	Ε =	TOTAL:		6 per 100 Linear Feet	x 387 Linear feet		24 Each
CJ CI	ryptomeria japonica 'Radicans'	Radicans Japanese Cedar	8	8' Ht.	B&B or Cont.	Full, Dense, Uniform Shape	8	100		800	Shrubs	9 per 100 Linear Feet	x 387 Linear feet	34.84	35 Each
IN //e	x x 'Conot'	Patriot® Red Holly	15	8' Ht.	B&B or Cont.	Full, Dense, Uniform Shape	15	60		900	Provided Streetsca	pe Plantings:			
					~		Total E	ergreen Tre	e Canopy	1,700	Large Deciduous Trees	0 Each			
S	HRUBS			77. AP	20-	~	TOTAL	TREE CANC	PY (SF) =	28,714	Small Trees	32 Each**			
AZ RI	hodendron x `Roblez'	Autumn Fire ® Encore Azalea	35	18"- 24" Ht.	3 Gal. Cont.	Full, Dense, Well Branched					Shrubs	52 Each			
CL CI	hamaecyparis lawsoniana 'Blue Surprise'	Blue Surprise Port Orford Cedar - The Guardian® Series	3	18"- 24" Ht.	B&B or Cont.	Full, Dense, Uniform Shape					contraction of the contraction of the second s	req.) have been used in lieu of 0 ad Powerlines (50' setback)	anopy Trees Date	Inserted:	2/13/2023 10:55
ICB //e	x cornuta`Burfordii Nana'	Compact Burford Holly	68	18"- 24" Ht./Spd.	3 Gallon Cont.	Full, Dense, Uniform Shape					**Small Trees Include: 12ea	Crape Myrtle, 6 ea. Serviceberr	, 12 ea. Patriot Holly, and	2 ea. Radica	ins Japanese Ceda
MC M	yrica cerifera	Southern Wax Myrtle	3	18"- 24" Ht.	5 Gallon Cont.	Full, Dense, Well Branched									
NDA Na	andina domestica alba 'Lemon-Lime' PP24749	Lemon Lime Nandina	6	18"-24" Ht.	3 Gallon Cont.	Full, Dense, Well Branched									
NDM Na	andina domestica 'Murasaki' PP21391	Nandina Flirt™	20	18" Spd.	2 Gallon Cont.	Full, Dense, Well Branched									
PI	ERENNIALS, ORNAMEN TAL GRASSES & GR	ROUNDCOVERS													
CA Ca	alamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	14	3 Gal.	Container	Full, Dense, 3 Bibs Min.									
HS He	emerocallis x `Happy Returns'	Happy Returns Daylily	48	1 Gal. Cont	Container	Full, Dense, 3 Bibs Min., Space @18" O.C	ē.								
LM Li	riope muscari `Royal Purple'	Royal Purple Lilyturf	259	4" Pots	Container	Full, Dense, Space @ 15" O.C.									
MU M	uhlenbergia capillarus 'White Cloud'	White Cloud Muhly Grass	4	3 Gal. Cont.	Container	Full, Dense, 3 Bibs Min.									



T: \Projects\RVA_Projects_RVA Legacy Projects_Engineering\B6229.63_MarketSt_BirchwoodDr_7-Eleven_Wilmington-NC_Encore\CAD\Construction\Sheets\LANDSCAPE PLAN.dwg | 04/11/2023 8:23am | rlindgren

leven - N chwood ontage Pla quired Str

Planting T e Deciduou II Deciduous

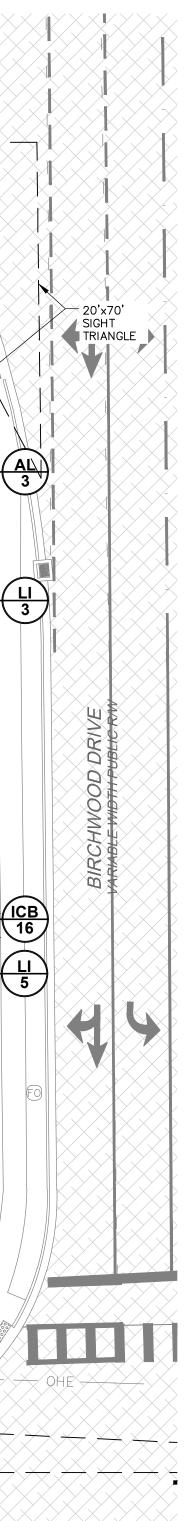
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REETSCAPE PLANTING CALCULATIONS

Eleven - Market	Str	eet	Wil	mington, I	NC			
rchwood Drive F	ror	ntag	e					
ontage Planting	Ler	ngth	=	242.2	LF			
equired Streetscap	oe P	lant	ings	:				
Planting Type			Spa	cing	x	Buffer Length	=	No. Required
ge Deciduous Trees	1	per	100	Linear Feet	x	242 Linear feet	2.42	3 Each*
all Deciduous Trees	6	per	100	Linear Feet	x	242 Linear feet	14.53	15 Each
ubs	9	per	100	Linear Feet	x	242 Linear feet	21.80	22 Each
ovided Streetscap	e P	lant	ings	:				
ge Deciduous Trees			0	Each				
all Deciduous Trees			21	Each*				
rubs			26	Each				
ote: Understory trees (2x r	eq.) ł	nave b	een u	sed in lieu of Ca	nop	y Trees Date	Inserted:	2/13/2023 10:58

e to proximity to Overhead Powerlines (50' setback)

nall Trees Include: 14ea. Crape Myrtle, 3 ea. Serviceberry, 3 ea. Patriot Holly, and 1 ea. Radicans Japanese Cedar



7-Eleven - Market Street - Wilmin	gton, NC
Foundation Plantings Required:	
Proposed Area of Front Façade of Building:	2,227.3 SF
Required Foundation Planting Bed Area:	
(100/ of Duran and Duilding Franks Anna)	207 05

FOUNDATION PLANTING CALCULATIONS

(12% of Proposed Building Façade Area) =	26	7 SF
Foundation Plantings Provided:		3 66.5
Proposed Planting Beds		SF
Planting Bed to left of front doors	A	60.4
Planting Bed between front doors	В	66.5
Planting Bed to right of front doors	С	140.2
Totals		267.1

Total Square Footage of Provided Bed Area: = 267.1 SF Date Inserted: 9/23/2022 16:11

GENERAL NOTES

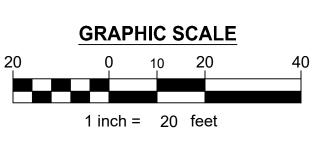
- 1. ALL PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND, INCLUDING ELECTRIC, TELEPHONE, AND CATV (SEE SITE UTILITY PLAN).
- 2. ANY SIGN IN EXCESS OF EIGHT (8) SQUARE FEET REQUIRES A PERMIT. PERMIT MUST BE OBTAINED THROUGH BUILDING INSPECTIONS DEPARTMENT.
- 3. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A THREE FOOT RADIUS OF ANY FIRE HYDRANT, FIRE PUMP TEST HEADER, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTION, FIRE DEPARTMENT STANDPIPE CONNECTION OR FIRE SUPPRESSION CONTROL VALVE. LANDSCAPING IN THE AREA OF FIRE HYDRANTS, FIRE PUMP TEST HEADERS, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTIONS OR FIRE DEPARTMENT STANDPIPE CONNECTIONS SHALL BE OF THE TYPE THAT WILL NOT ENCROACH ON THE REQUIRED THREE FOOT CLEAR RADIUS ON MATURITY OF THE LANDSCAPING
- 4. NO TREE SHALL BE PLACED WITHIN A WATER AND SANITARY SEWER EASEMENT OR ANY CLOSER THAN TEN FEET (10') TO ANY PUBLIC SANITARY SEWER OR WATER IMPROVEMENT.
- 5. ALL TREES IN PARKING AREAS TO BE MAINTAINED WITH A MINIMUM 5' BRANCHING HEIGHT (LIMBED UP TO 5' MINIMUM).
- 6. ALL JUNCTION AND/OR ACCESS BOXES, WHEN LOCATED ON SITES ALONG DESIGNATED ROADS. SHALL BE SCREENED FROM VIEW WITH LANDSCAPING. SUPPLEMENTAL PLANTINGS SHALL BE PROVIDED AS REQUIRED TO PROVIDE THIS SCREENING PRIOR TO CERTIFICATE OF OCCUPANCY.

MULCH & SOD NOTES:

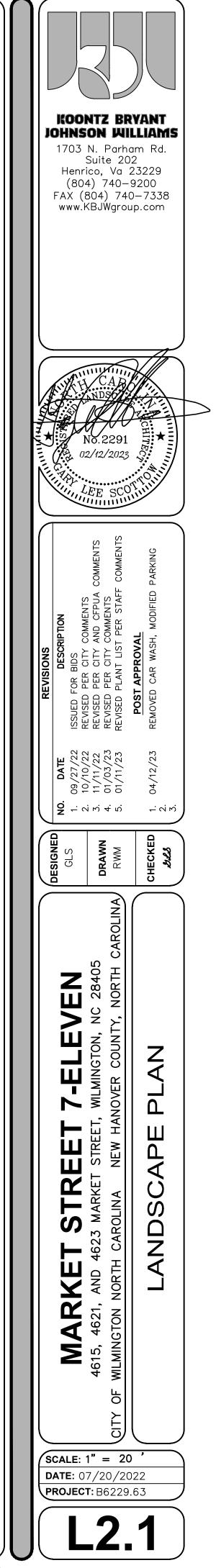
- 1. ALL AREAS NOT INCORPORATED IN PLANTING MULCH BED ARE TO BE SODDED. SOD SHALL BE TIFTURF BERMUDA SOD OR EQUAL.
- 2. ALL PLANT BEDS ARE TO BE MULCHED TO A MINIMUM OF 1.5' BEYOND THE EDGE OF NEW PLANTINGS.
- 3. IN CASES WHERE SHRUBS ARE PLANTED AS HEDGES ALONG PARKING LOTS, MULCH SHOULD EXTENT FROM EDGE OF NEW PLANTINGS TO THE BACK OF CURB FOR PARKING AREA (NO TURF BETWEEN PLANTING BED AND BACK OF CURB).
- 4. NO PARKING SPACES, FENCES, WALLS, POSTS, LIGHTS, SHRUBS, TREES, OR OTHER TYPE OF OBSTRUCTIONS NOT SPECIFICALLY EXEMPTED SHALL BE PERMITTED IN THE SPACE BETWEEN THIRTY INCHES (30") AND ABOVE GROUND AND TEN FEET (10')ABOVE GROUND LEVEL WITHIN A TRIANGULAR SIGHT DISTANCE [SEC.18-667 FIGURE 18-667 CITY OF WILMINGTON UPDATED LDC: VISION CLEARANCE].



Know what's **below. Call** before you dig.



NOTE: THIS PLAN IS FOR LANDSCAPE PURPOSES ONLY. REFER TO CIVIL ENGINEERING PLANS FOR DETAILED SITE INFORMATION.



LANDSCAPE PLANTING NOTES

PLANTING GENERAL CONDITIONS:

THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL PLANT MATERIALS SHOWN ON PROJECT PLANS AND ON THE PLANT LIST. PLANT LIST QUANTITIES ARE FOR REFERENCE AND CONVENIENCE ONLY. QUANTITIES REPRESENTED BY ACTUAL PLAN PLANT COUNT SHALL PREVAIL AND SHALL BE QUANTITIES REQUIRED TO BE PLANTED BY THE CONTRACTOR. LANDSCAPE CONTRACTOR SHALL INVESTIGATE SOURCES OF SUPPLY FOR AVAILABILITY OF SPECIFIED PLANTS AND BY SUBMITTING A BID, AGREES THAT SUCH PLANTS WILL BE AVAILABLE FOR INSTALLATION ON THIS PROJECT PER THE CURRENT SCHEDULE. IF PLANT MATERIAL SPECIFIED IS UNAVAILABLE, LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING PRIOR TO BID DATE AND A SUBSTITUTE OR OTHER ACTION WILL BE TAKEN.

2. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR, COMMENCING ON THE DATE OF INITIAL ACCEPTANCE. ALL PLANTS SHALL BE ALIVE, HEALTHY AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT THAT IS 25% OR MORE DEAD SHALL BE CONSIDERED DEAD AND SHALL BE REPLACED AT NO CHARGE TO THE OWNER.

3. AN INSPECTION WILL BE CONDUCTED BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE WITHIN TWO (2) WEEKS UPON RECEIVING WRITTEN NOTICE BY THE LANDSCAPE CONTRACTOR THAT THE WORK UNDER THIS CONTRACT IS COMPLETE. THIS INSPECTION WILL BE DONE TO DETERMINE INITIAL ACCEPTANCE OF THE WORK. IF WORK IS FOUND TO BE INCOMPLETE AND/OR THAT OTHER DEFICIENCIES IN THE WORK EXIST, THE LANDSCAPE CONTRACTOR WILL BE ISSUED A PUNCH LIST FOR ITEMS IN NEED OF CORRECTION. UPON COMPLETION OF ANY PUNCH LIST ITEMS, LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE WILL RE-INSPECT WORK, AND IF ACCEPTABLE, WILL ISSUE TO THE LANDSCAPE CONTRACTOR INITIAL ACCEPTANCE.

4. PRIOR TO INITIAL ACCEPTANCE, LANDSCAPE CONTRACTOR SHALL PROVIDE TO THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE A TYPEWRITTEN SET OF DETAILED AND COMPREHENSIVE PLANT AND TURF MAINTENANCE INSTRUCTIONS. 5. AT THE CONCLUSION OF THE GUARANTEE PERIOD, AN INSPECTION WILL BE CONDUCTED BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE TO DETERMINE FINAL ACCEPTANCE FOR THIS PROJECT. ANY PLANTS THAT ARE IN AN UNHEALTHY, UNSIGHTLY, AND/OR BADLY IMPAIRED CONDITION AT THIS TIME AS DETERMINED BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE WILL BE REPLACED AT NO CHARGE. WHEN ALL REQUIRED REPLACEMENTS HAVE BEEN COMPLETED, LANDSCAPE CONTRACTOR WILL BE ISSUED FINAL ACCEPTANCE.

6. A SOIL TEST OF EXISTING SOILS (REPRESENTATIVE SAMPLE FOR ENTIRE SITE) SHALL BE MADE BY THE LANDSCAPE CONTRACTOR TO DETERMINE MECHANICAL ANALYSIS; pH; ORGANIC CONTENT; MAGNESIUM, POTASSIUM, PHOSPHORUS & NITROGEN LEVELS; SOLUBLE SALTS/CONDUCTIVITY. SOIL TEST SHALL BE CONDUCTED BY A STATE LABORATORY OR RECOGNIZED COMMERCIAL LABORATORY. RESULTS OF SOILS TEST SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR EVALUATION AND RECOMMENDATIONS FOR SOIL ADJUSTMENTS, IF REQUIRED.

7. ALL PLANTINGS HAVE BEEN LOCATED WITH RESPECT TO EXISTING AND PLANNED UTILITIES AND/OR STRUCTURES. IF CONFLICTS OCCUR IN FIELD, PLANT MATERIAL LOCATIONS WILL BE FIELD ADJUSTED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES. CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

8. ANY AREAS DAMAGED BY THE LANDSCAPE CONTRACTOR WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL CHARGE TO THE OWNER. MATERIALS:

1. ALL PLANT MATERIALS WILL CONFORM TO THE CURRENT STANDARDS FOR QUALITY AND SIZE PER THE AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN NURSERYMEN AND LANDSCAPE ASSOCIATION (ANLA).

2. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND/OR APPROVAL BY THE LANDSCAPE ARCHITECT AT THEIR PLACE OF GROWTH FOR CONFORMITY TO THE SPECIFICATION REQUIREMENTS AS TO SIZE, QUALITY AND VARIETY. THE LANDSCAPE CONTRACTOR SHALL SELECT PLANTS IN ADVANCE OF INSPECTION VISITS TO PREVENT REJECTION OF MATERIAL DELIVERED TO THE SITE. PLANT MATERIALS DAMAGED IN HANDLING AND/OR TRANSPORTATION MAY BE REJECTED BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE UPON ARRIVAL AT THE SITE. 3. BACKFILL MIX FOR TREES & SHRUBS SHALL BE A THOROUGHLY BLENDED MIXTURE OF 50% EXISTING SOIL, 25% TOPSOIL & 25% ORGANIC MATTER (LEAF COMPOST, COMPOSTED PINE BARK FINES, COMPOSTED COW MANURE AND/OR OTHER ORGANIC MATERIAL APPROVED BY LANDSCAPE ARCHITECT

4. MULCH FOR TREES, SHRUBS, GROUNDCOVER AND ANNUAL PLANTING BEDS SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH AND SHALL BE INSTALLED AT 2"-3" DEPTH. 5. STAKES FOR STAKING & GUYING OF TREES SHALL BE 2"X2" HARDWOOD, REASONABLY FREE OF KNOTS AND/OR OTHER DEFECTS. STAKES FOR GUYING SHALL BE 3' IN LENGTH AND FOR VERTICAL STAKING SHALL BE 8' IN LENGTH. 6. WIRE FOR STAKING & GUYING SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL

OR APPROVED EQUAL. HOSE FOR WIRE CHAFFING GUARDS SHALL BE CORDED RUBBER, 1/2" DIAMETER AND BLACK IN COLOR. TURNBUCKLES (FOR TREES 4" CALIPER AND LARGER) SHALL BE ZINC PLATED OR ALUMINUM WITH A MINIMUM DIAMETER OF 5/16" AND A MINIMUM TAKE-UP DIMENSION OF 4".

7. FERTILIZER FOR ALL PLANTINGS SHALL BE GRANULAR OR PELLET FORM WITH AN ANALYSIS OF 10-6-4, 50% ORGANIC FORM AND SHALL BE APPLIED PER SOIL TEST RECOMMENDATION.

EXECUTION:

1. ALL PLANTINGS TO BE INSTALLED PER DETAILS ON THIS SHEET. IF PLANTINGS CAN NOT BE INSTALLED PER DETAIL, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IN WRITING OF SUCH AN INSTANCE AND A CORRECTIVE PLANTING MEASURE WILL BE ISSUED. 2. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE IN WRITING IF POOR DRAINAGE AREAS ARE ENCOUNTERED DURING PLANTING OPERATIONS. IF REQUIRED DUE TO THIS POOR DRAINAGE, PLANT MATERIAL LOCATION MAY BE ADJUSTED BY THE LANDSCAPE ARCHITECT, PLANT SELECTION MAY BE MODIFIED AND/OR A MEASURE FOR CORRECTING SAID DRAINAGE PROBLEM WILL BE NEGOTIATED WITH LANDSCAPE CONTRACTOR.

3. ALL BURLAP AND/OR TIES AROUND TOP 1/3 OF TREE ROOT BALLS SHALL BE REMOVED DURING PLANTING OPERATION. ALL PLASTIC POTS AND/OR CONTAINERS AS WELL AS OTHER MISCELLANEOUS DEBRIS FROM PLANTING OPERATIONS, SHALL BE REMOVED FROM PROJECT SITE ON A DAILY BASIS.

4. ALL DECIDUOUS TREES 2" CALIPER OR LARGER AND EVERGREENS 6' HEIGHT AND LARGER SHALL BE GUYED PER DETAIL 1 ON THIS SHEET, (EXCEPT FOR THOSE TREES LOCATED IN PEDESTRIAN AREAS WHICH SHALL BE VERTICALLY STAKED PER DETAIL 2). VERTICAL STAKES SHALL BE LOCATED PARALLEL TO WALKS, STREETS, ETC.

5. ALL PLANTINGS SHALL BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, EVEN IF IT IS RAINING. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING OF ALL PLANTINGS UNTIL INITIAL ACCEPTANCE 6. REMOVE ALL STAKES & GUYS ON TREES PLANTED AS PART OF THIS PROJECT AT THE END OF THE 1 YEAR PLANT MATERIAL WARRANTY PERIOD. DISPOSE OF DEBRIS & OLD STAKING MATERIALS LEGALLY OFF-SITE.

TURF

GENERAL CONDITIONS: . LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE TURF ESTABLISHMENT. ALL TURF SEED AREAS SHALL BE GUARANTEED TO ACHIEVE A 85% OR GREATER GERMINATION RATE. ANY AREAS NOT RECEIVING THIS RATE SHALL BE RE-SEEDED AT NO ADDITIONAL CHARGE TO THE OWNER. THREE COPIES OF THE CERTIFIED SEED LABEL FOR THE SPECIFIED TURF SEED MIXTURE SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT PRIOR TO SEEDING OPERATIONS.

MATERIALS: 1. TURF (SEED AND SOD) SHALL BE A BLEND OF THREE (3) IMPROVED VARIETIES OF TURF TYPE FALL FESCUE PER THE CURRENT LIST FROM VPI & SU. SEED AND SOD SHALL BE STATE CERTIFIED. SEED FOR SHADE AREAS TO BE CREEPING RED FESCUE AND CHEWINGS FESCUE.

2. STRAW MULCH TO BE CLEAN WHEAT STRAW, FREE OF NOXIOUS WEED SEEDS (I.E. QUACKGRASS, JOHNSON GRASS, THISTLE, ETC.). HAY FOR USE AS MULCH IS UNACCEPTABLE

HYDROMULCH FOR SEEDING OPERATION SHALL BE CELLULOSE FIBER SUCH AS CONWEB OR APPROVED EQUAL 4. FERTILIZER FOR TURF AREAS SHALL BE GRANULAR OR PELLET FORM, WITH A

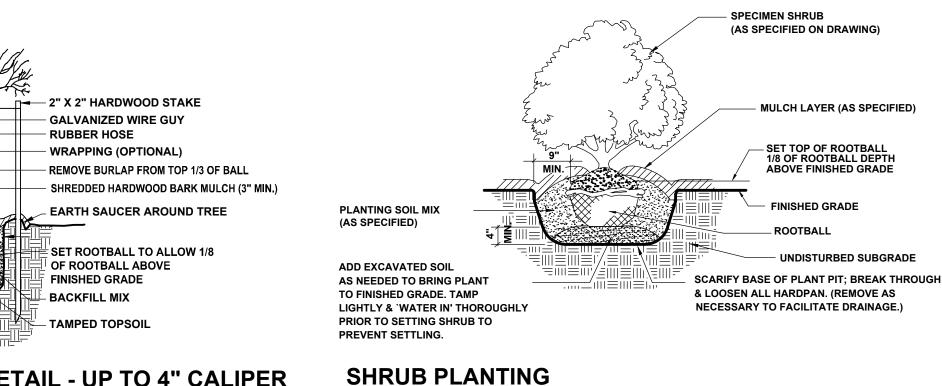
GUARANTEED ANALYSIS OF 10-10-10. 5. LIME MATERIAL SHALL BE PELLETIZED LIME.

EXECUTION:

1. PRIOR TO SEED AND/OR SOD INSTALLATION, AREAS SHALL BE FINE GRADED AND CLEANED OF TRASH, ROOTS, DEBRIS AND/OR STONES 1 1/2" IN LENGTH OR DIAMETER. FERTILIZER SHALL BE INSTALLED IN TURF AREAS AT A RATE OF 20 LBS./1000 SQUARE

LIME SHALL BE APPLIED AT A RATE AS DETERMINED BY SOIL TESTS. 4. SOD SHALL BE LAID WITH STAGGERED JOINTS AND PERPENDICULAR TO SLOPE, IF ANY. SOD SHALL BE WATERED THOROUGHLY AFTER BEING LAID AND THEN SHALL BE ROLLED TO PROVIDE GOOD SOD-TO-SOIL CONTACT. 5. TURF SEED SHALL BE INSTALLED BY HYDROSEED METHOD. SEED, FERTILIZER AND/OR LIME SHALL BE ONE SLURRY MIX; HYDROMULCH SHALL BE SECOND SLURRY APPLICATION (TACK COAT) AFTER STRAW MULCH INSTALLATION. SEED SHALL BE SOWED AT A RATE OF

6-8 LBS./1000 SQUARE FEET. WATER AREA THOROUGHLY AFTER MULCHING OPERATION. TURF SHALL BE KEPT MOIST ON A DAILY BASIS UNTIL 2 WEEKS AFTER GERMINATION TO ENSURE PROPER ESTABLISHMENT. 8. CLEAN UP MISCELLANEOUS DEBRIS AND EXCESS STRAW FROM THE TURF AREAS AND

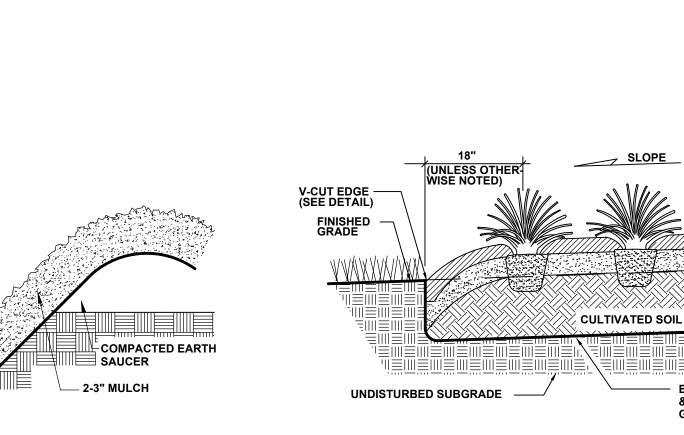


SCALE: N.T.S.

FROM JOB SITE.



l≑ 6" MIN.∶



SECTION



SCALE: N.T.S.

APPROX. 45°

FINISHED GRADE

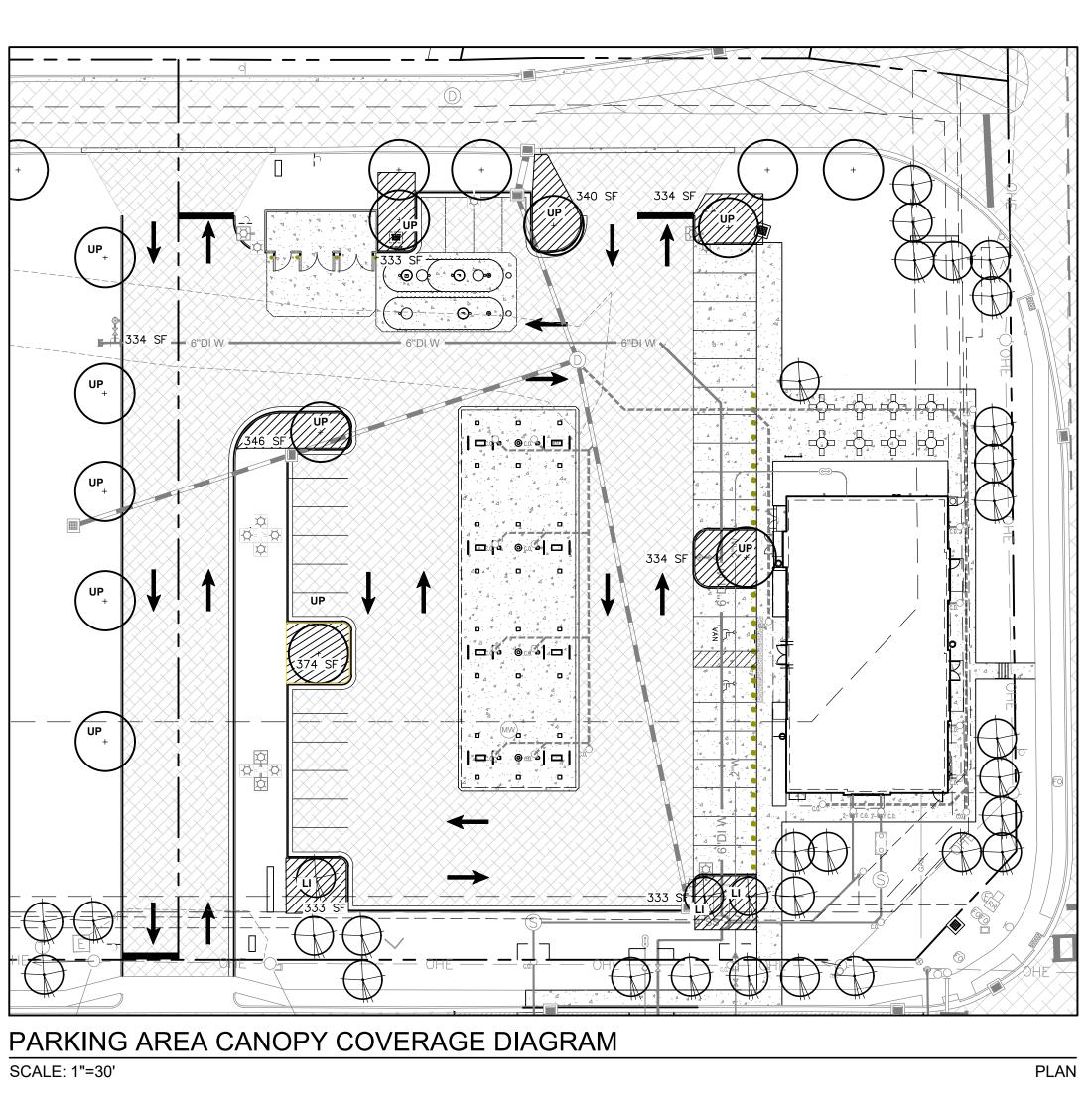
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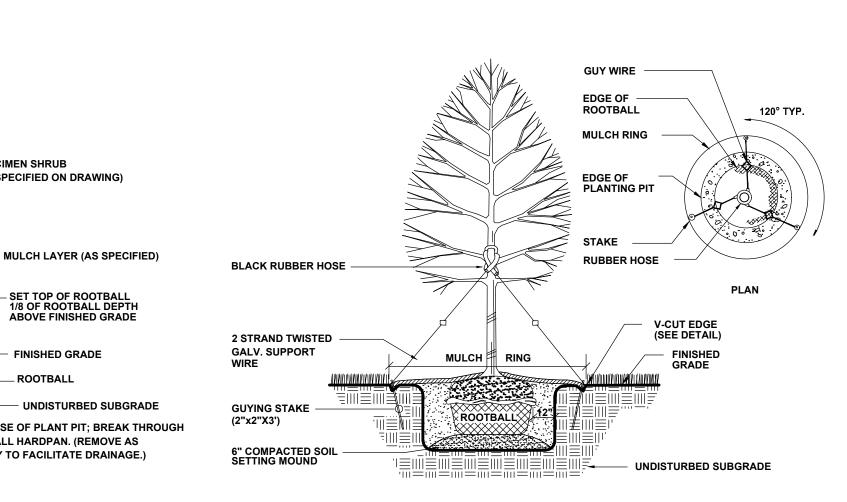
GROUNDCOVER PLANTING SCALE: N.T.S.

PARKING SHADING CALCULATIONS

7-Eleven - Market Street - Wi	lmir	ngto	n, NC
Parking Shading Required			
Total Proposed Parking Area =			43,317 SF
Required Shading (Outside 1945 Corporat (20% of Proposed Parking Area) =	e Lim	its)	8,663 SF
Parking Shading Provided			
Proposed Shade Trees	Qty	SF*	Canopy
UP - Allee' Lacebark Elm (Canopy)	11	707	7,777 SF
LI - Dynamite Crape Myrtle (Understory)	3	314	942 SF
Totals	14		8,719 SF
Parking Shade Coverage Prov	ided	=	8,719 SF
Number of Deciduous Canopy T	rees	=	11 Each
Number of Understory T	rees	=	3 Each
Total Number of Trees Provi *See Plant N	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	= al Sche	14 Each dule, Sht. L2.

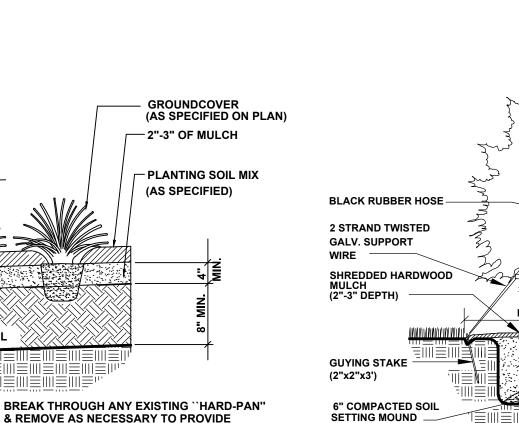
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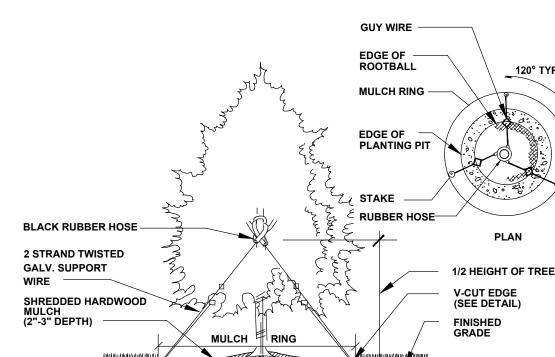
LARGE TREE PLANTING & GUYING

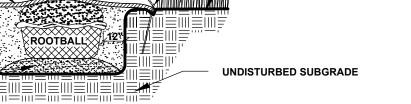
SECTION



SCALE: N.T.S.

& REMOVE AS NECESSARY TO PROVIDE **GOOD PERCOLATION & POSITIVE DRAINAGE.**





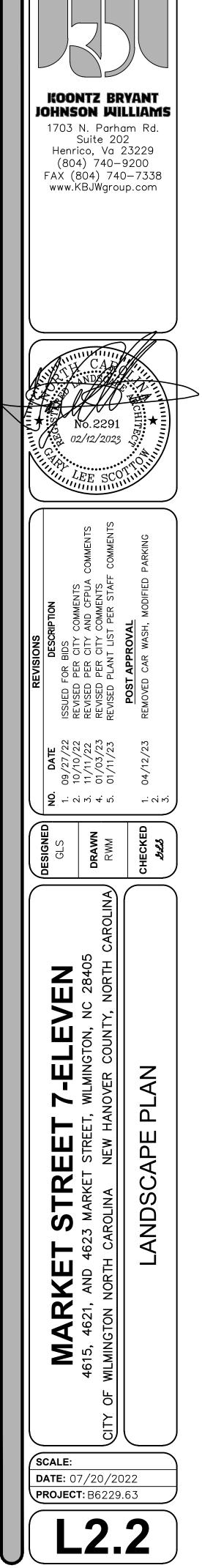
SECTION

GENERAL NOTES

- ALL PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND, INCLUDING ELECTRIC, TELEPHONE, AND CATV (SEE SITE UTILITY PLAN).
- ANY SIGN IN EXCESS OF EIGHT (8) SQUARE FEET REQUIRES A PERMIT. PERMIT MUST BE OBTAINED THROUGH BUILDING INSPECTIONS DEPARTMENT.
- 3. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A THREE FOOT RADIUS OF ANY FIRE HYDRANT, FIRE PUMP TEST HEADER, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTION, FIRE DEPARTMENT STANDPIPE CONNECTION OR FIRE SUPPRESSION CONTROL VALVE. LANDSCAPING IN THE AREA OF FIRE HYDRANTS, FIRE PUMP TEST HEADERS, FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTIONS OR FIRE DEPARTMENT STANDPIPE CONNECTIONS SHALL BE OF THE TYPE THAT WILL NOT ENCROACH ON THE REQUIRED THREE FOOT CLEAR RADIUS ON MATURITY OF THE LANDSCAPING.
- 4. NO TREE SHALL BE PLACED WITHIN A WATER AND SANITARY SEWER EASEMENT OR ANY CLOSER THAN TEN FEET (10') TO ANY PUBLIC SANITARY SEWER OR WATER IMPROVEMENT
- 5. ALL TREES IN PARKING AREAS TO BE MAINTAINED WITH A MINIMUM 5' BRANCHING HEIGHT (LIMBED UP TO 5' MINIMUM).

EVERGREEN (CONIFER) TREE PLANTING AND GUYING SCALE: N.T.S. SECTION

SECTION





Know what's below. Call before you dig.

NOTE: THIS PLAN IS FOR LANDSCAPE PURPOSES **ONLY. REFER TO CIVIL ENGINEERING** PLANS FOR DETAILED SITE INFORMATION



	EXTE	RIOR FINISH SCHEDULE		
F	INISH	MATERIAL	PATTERN	
5	S-1	ALUMNINUM STOREFRONT - KAWNEER 451T VG - #29 BLACK FINISH	The second se	ROAD E: 479.721.4
F PARAPET	N-1	NICHIHA FIBER CEMENT PANEL - VINTAGE BRICK - PAINTED P-1		Creating the second state stat
	C-1	MAPES LUMISHADE CANOPY - MATTE BLACK BAKED ENAMEL WITH REAR GUTTER CONNECTIONS		and the second s
,	MT-1	PAC-CLAD 22 GAGE 1" CORRUGATED MEATAL WALL PANELS - SILVER		
NISHED METAL PY - MATTE BLACK	WDS-1	NICHIHA FIBER CEMENT PANEL - VINTAGE WOOD - CEDAR (AWP3030 - FOR VERTICAL INSTALLATION)		Seal:
	P-1	SHERWIN WILLIAMS SW7005 - "PURE WHITE"		THIS DRAWING IS FOR REVIEW AND REFERENCE ONLY - NOT FOR
PARTY PROVIDED	D-3	EXTERIOR HM DOORS, FRAMES, AND TRASH ENCLOSURE GATE - SHERWIN WILLIAMS SW 6258 "TRICORN BLACK"		CONSTRUCTION
ALAST ALL-TERM METAL SE - COAL BLACK DFTOP EQUIPMENT BEYOND NCAL E OF ROOF RUCTURE BEYOND				INC OAD 0AD 054580 HWOOD DRIVE 1405 1405
52'-9" 14'-8"		18'-1"		7-ELEVEN, INC 3200 HAKENBERRY ROAD 3200 HAKENBERRY ROAD IRVING, TX 75063 7-ELEVEN #1054580 MARKET STREET AND BIRCHWOOD DRIVE WILMINGTON, NC 28405
T-1				Job Number: 22001 Drawn By: KAC
				Checked By: KAC Proto Date: Document Date: 3.15.22 Sheet Name:

ELECTRICAL MDP, METER AND CT CABINET - PAINT P-3

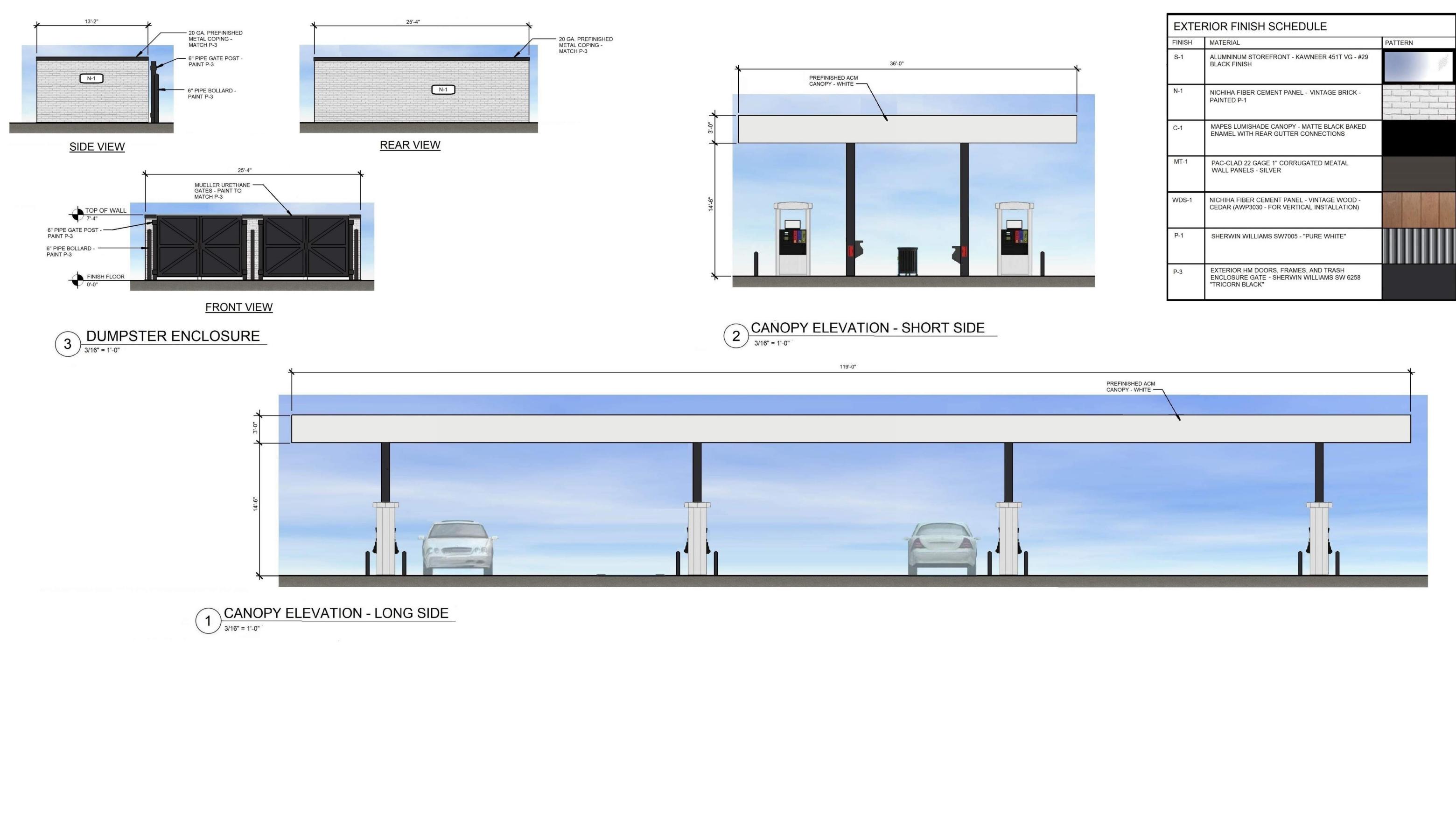
P-3

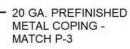
REVIEW BOARD

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RBE-1

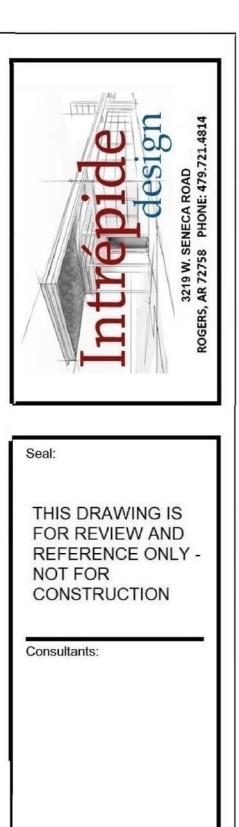
Sheet Number:







FINISH	MATERIAL	PATTERN
S-1	ALUMNINUM STOREFRONT - KAWNEER 451T VG - #29 BLACK FINISH	1
N-1	NICHIHA FIBER CEMENT PANEL - VINTAGE BRICK - PAINTED P-1	
C-1	MAPES LUMISHADE CANOPY - MATTE BLACK BAKED ENAMEL WITH REAR GUTTER CONNECTIONS	
MT-1	PAC-CLAD 22 GAGE 1" CORRUGATED MEATAL WALL PANELS - SILVER	
WDS-1	NICHIHA FIBER CEMENT PANEL - VINTAGE WOOD - CEDAR (AWP3030 - FOR VERTICAL INSTALLATION)	
P-1	SHERWIN WILLIAMS SW7005 - "PURE WHITE"	
P-3	EXTERIOR HM DOORS, FRAMES, AND TRASH ENCLOSURE GATE - SHERWIN WILLIAMS SW 6258 "TRICORN BLACK"	



Submissions: DATE: PHASE

