

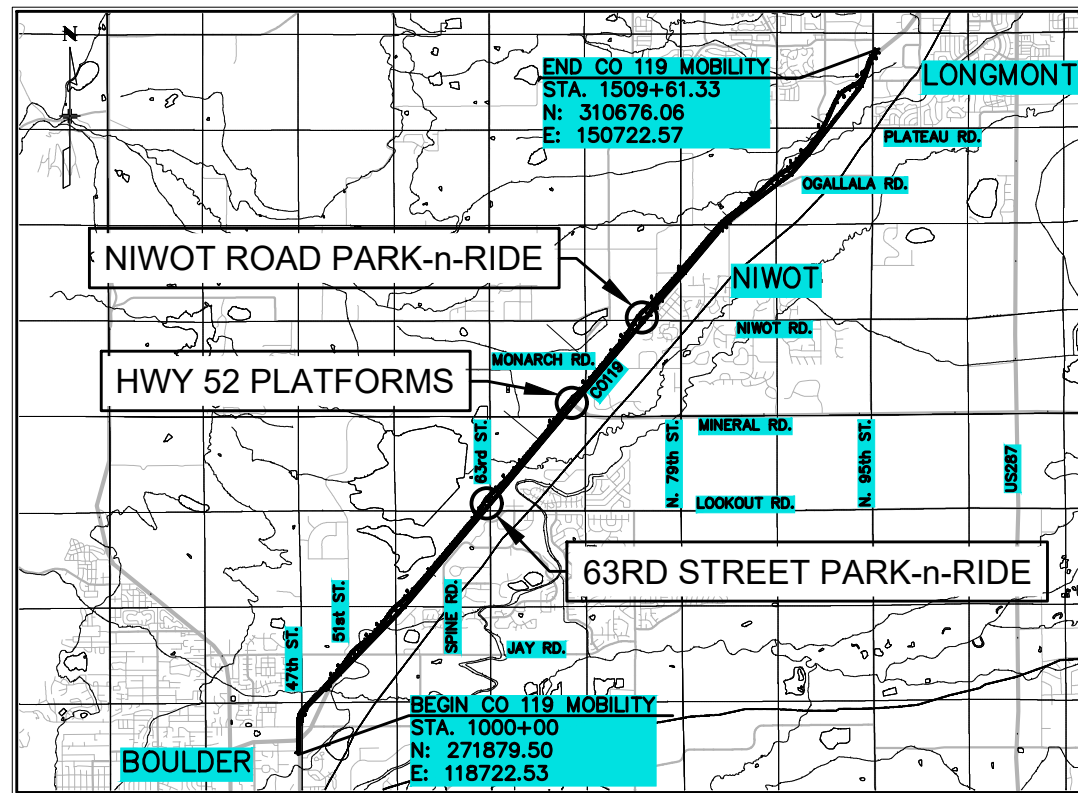
PoDI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PoDI)?	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES
NATIONAL HIGHWAY SYSTEM?	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES

**FIR**  
AUGUST 2022

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

Related Projects:	
P. E. UNDER PROJECT:	1191-033
Project Number	21497
Project Code:	
R.O.W. Projects:	
R.O.W. Project Description	

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED HIGHWAY NO. CO 119 BOULDER COUNTY CONSTRUCTION PROJECT CODE NO. 21497 CO119 SAFETY AND MOBILITY IMPROVEMENTS PROJECT: RTD PARK-n-RIDES AND BUS PLATFORMS



**NOT FOR  
CONSTRUCTION**  
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08/05/2022

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						Comments:	Cover Page G-001		

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**EXISTING**

PROPERTY LINE (APPROX.)	---	POST/BOLLARD	○
SANITARY SEWER	--- 10" VCP ---	MONITORING WELL	○
STORM SEWER	--- 24" RCP ---	POWER POLE	●
WATER	--- W --- W ---	BENCH	▭
COMMUNICATION	--- FO --- UG ---	SURVEY CONTROL POINT	△
GAS	--- G --- G ---		
ELECTRIC	--- E --- UG ---		
CONTOUR	--- 5340 ---		
INLET			
SANITARY MANHOLE	⊙ SA		
STORM MANHOLE	⊙ ST		
TELEPHONE/ COMMUNICATION MANHOLE	⊙ T		
ELECTRIC MANHOLE	⊙ E		
WATER MANHOLE	⊙ W		
STREET LIGHT	⊙		
FIRE HYDRANT	⊙		
ELECTRIC/TRAFFIC CABINET	⊙		
PULL BOX	⊙		
WATER METER	⊙		
WATER VALVE	⊙		
TRAFFIC SIGNAL POLE	⊙		
TRAFFIC SIGN	⊙		

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**PROPOSED**

COMMUNICATIONS	--- UG --- FO ---	CANOPY	
ELECTRICAL	--- E --- UG ---	6 FT. BENCH	
STORM SEWER		BOARDING AREA	
CURB & GUTTER		ASPHALT PAVEMENT	
CONTOUR	--- 5275.5 ---	CONCRETE BUS PAD AND HEAVY DUTY CURB & GUTTER	
SPOT GRADE	75.55	CONCRETE WALKWAY	
INLET			
STORM MANHOLE	⊙ ST		
FLARED END SECTION			
ELECTRICAL CABINET	⊙		
COMMUNICATIONS CABINET	⊙		
PULL BOX	⊙ (18"x30") (24"x36")(SPLIT)		
PARKING LOT LIGHT	⊙		
SECURITY CAMERA	⊙		

**COMMON ABBREVIATIONS**

AASHTO	AMERICAN ASSOCIATION OF STATE TRANSPORTATION OFFICIALS	MAX	MAXIMUM
ABC	AGGREGATE BASE COURSE	M.E.	MATCH EXISTING
ADA	AMERICANS WITH DISABILITIES ACT	MH	MANHOLE
APPROX	APPROXIMATE	MIN	MINIMUM
B&B	BALLED AND BURLAPPED	MIPT	MALE IRON PIPE THREAD
BOC	BACK OF CURB	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
BOW	BACK OF WALK	NTS	NOT TO SCALE
CALP.	CALIPER	O.C.	ON CENTER
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	OH	OVERHEAD
C&G	CURB AND GUTTER	PC	POINT OF CURVATURE
CF	CUBIC FEET	PI	POINT OF INTERSECTION
CFS	CUBIC FEET PER SECOND	POB	POINT OF BEGINNING
CLR.	CLEAR	P.O.C.	POINT OF CONNECTION
CONC	CONCRETE	POE	POINT OF END
CONT	CONTAINER	PRC	POINT OF REVERSE CURVE
CU	CUBIC	PSI	POUNDS PER SQUARE INCH
CY	CUBIC YARDS	PT	POINT OF TANGENCY
DIA or Ø	DIAMETER	PVC	POLYVINYL CHLORIDE
EA	EACH	Q100	100 YEAR PEAK FLOW
E	ELECTRIC or ELECTRICAL	QLB	QUALITY LEVEL B (UTILITY LOCATE)
ELEC	ELECTRIC or ELECTRICAL	QLC	QUALITY LEVEL C (UTILITY LOCATE)
ELEV	ELEVATION	R	RADIUS
EURV	EXCESS URBAN RUNOFF VOLUME	RCP	REINFORCED CONCRETE PIPE
EX	EXISTING	REQ'D	REQUIRED
FES	FLARED END SECTION	R.O.W.	RIGHT OF WAY
FH	FIRE HYDRANT	RTD	REGIONAL TRANSPORTATION DISTRICT
FL	FLOW LINE	SCH.	SCHEDULE
FT	FOOT or FEET	SF	SQUARE FEET
G	GAS	SPD	STANDARD PROCTOR DENSITY
GA	GAUGE	SS	SANITARY SEWER OR STAINLESS STEEL
GAL	GALLON	ST	STORM SEWER OR STREET
GALV.	GALVANIZED	STA	STATION
GPH	GALLONS PER HOUR	STD	STANDARD
GPM	GALLONS PER MINUTE	SQ.	SQUARE
HCL	HORIZONTAL CONTROL LINE	SY	SQUARE YARDS
HD	HEAVY DUTY	TOC	TOP OF CONCRETE
HP	HIGH POINT	T.O.F.	TOP OF FOOTING
IN	INCH or INCHES	TYP	TYPICAL
INCL	INCLUDED	UDFCD	URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
INL	INLET	UG	UNDERGROUND
INS	INSERT	V	VALVE
INV	INVERT	VB	VALVE BOX
IRR	IRRIGATION	W	WATER
LF	LINEAR FOOT (FEET)	W/	WITH
LP	LOW POINT	W.S.	WATER SURFACE
		WSEL	WATER SURFACE ELEVATION
		WQCV	WATER QUALITY CAPTURE VOLUME

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	Unit Information					Void:	Detailer: FBT	Sheet Subset: RTD	Subset Sheets: 2 of 16	Sheet Number G-002

**I. GENERAL**

1. THE SCOPE OF THIS PROJECT IS TO CONSTRUCT TWO NEW PARK-n-RIDES AND BUS RAPID TRANSIT (BRT) PLATFORMS AS PART OF THE CO119 SAFETY & MOBILITY IMPROVEMENTS PROJECT, AS SHOWN OR DESCRIBED IN THESE CONSTRUCTION DRAWINGS.
2. IF THE CONTRACTOR THINKS THAT ANY ELEMENT OF THE DESIGN NEEDS ADJUSTMENT, THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE RTD CONSTRUCTION PROJECT MANAGER.
3. CONTRACTOR SHALL COORDINATE WITH RTD BUS OPERATIONS REGARDING CLOSURE OF BUS STOPS. CONTRACTOR SHALL NOTIFY RTD BUS STOP PROGRAM A MINIMUM OF 4 WEEKS PRIOR TO BEGINNING CONSTRUCTION AT A GIVEN LOCATION:
  - MICHELLE SIMS 303-299-6563
4. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, 2010 STANDARDS FOR ACCESSIBLE DESIGN, AND CDOT STANDARDS.
5. ALL CIVIL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE OF THE CDOT "STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION", "M & S STANDARDS".
6. ALL CIVIL WORK NOT COVERED BY CDOT SPECIFICATIONS OR STANDARD DRAWINGS SHALL BE DONE IN ACCORDANCE WITH RTD STANDARD DRAWINGS AND SPECIFICATIONS.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND BONDS REQUIRED.
8. IF TEMPORARY CONSTRUCTION EASEMENTS OR ACCESS PERMITS ARE REQUIRED FROM PRIVATE PROPERTY OWNERS TO COMPLETE THE WORK, CONTRACTOR SHALL OBTAIN THE EASEMENTS OR PERMITS. EASEMENTS SHALL BE PREPARED AND STAMPED BY A COLORADO PLS.
9. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED AND WILL NOT BE PAID FOR SEPARATELY.
10. REMOVAL OF EXISTING ASPHALT MAT, CONCRETE PAVEMENT, CURB AND GUTTER, OR SIDEWALK REQUIRED ON THIS PROJECT SHALL BE SAW CUT TO A VERTICAL EDGE. COST TO BE INCLUDED IN WORK. LIMITS OF REMOVAL SHALL BE VERIFIED BY THE RTD CONSTRUCTION PROJECT MANAGER PRIOR TO THEIR REMOVAL. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFFSITE.
11. UNLESS OTHERWISE NOTED, ALL DIMENSIONS, RADII, PROFILES, AND ELEVATIONS ARE TO THE FLOWLINE.
12. THE CONTRACTOR IS REQUIRED TO KEEP EXISTING DRAINAGE STRUCTURES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE STRUCTURES AT ALL TIMES DURING CONSTRUCTION. SEE ENVIRONMENTAL NOTES.
12. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER.
13. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
14. THE TYPE OF COMPACTION FOR EARTHWORK ON THIS PROJECT SHALL BE AASHTO T99 UNLESS OTHERWISE NOTED:
  - 95% OF T-99 FOR CLAY AND SILT
  - 99% OF T-99 FOR GRANULAR
 MOISTURE CONDITION TO +/- 2% FOR T-99, -4% OF OPTIMUM FOR T-180. SUBGRADE MOVEMENT EXCEEDING 1/4" OR PUMPING AT PROOFROLL IS NOT ACCEPTABLE.
15. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL HOLD A

PRECONSTRUCTION MEETING WITH CDOT AND RTD, AND SHALL OBTAIN ALL NECESSARY PERMITS FROM CDOT, CITY OF BOULDER AND BOULDER COUNTY.

16. PRIOR TO CONSTRUCTION, THE CONTRACTOR'S SURVEYOR SHALL PERFORM A SURVEY TO VERIFY ALL RIGHT-OF-WAY LINES, SURVEY CONTROL POINTS, SECTION CORNERS, AND BENCHMARKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL LAND SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ACTIVITIES OR BY NEGLIGENCE ON THE PART OF THE CONTRACTOR AND SUBCONTRACTORS.
17. THE CONTRACTOR IS REQUIRED TO FOLLOW COLORADO STATE LAW REGARDING SURVEY MONUMENTS. THE CONTRACTOR SHALL RETAIN A COLORADO-LICENSED PROFESSIONAL LAND SURVEYOR TO RESET ANY AFFECTED MONUMENTS.
18. FULL PANEL REPLACEMENT IS REQUIRED FOR ANY EXISTING CONCRETE SIDEWALK, CURB, OR PAVEMENT PANELS THAT ARE REMOVED OR DAMAGED. USE EXISTING JOINTING PATTERN IN NEW CONCRETE UNLESS OTHERWISE NOTED.
19. DETECTABLE WARNING SURFACES (DWS) ON ALL CURB RAMPS ON THIS PROJECT SHALL CONFORM TO ADA AND CDOT STANDARDS.
20. CONCRETE FOR CONCRETE PAVEMENT, CROSS PANS, CURB & GUTTER, WALKWAYS AND CURB RAMPS SHALL HAVE THE FOLLOWING MIX DESIGN: TYPE P, COMPRESSIVE STRENGTH 4500 PSI AT 28 DAYS. AIR CONTENT PERCENTAGE 5-8. MAXIMUM WATER CEMENT RATIO 0.44; SLUMP 3-5"; MAXIMUM AGGREGATE SIZE 3/4"; WITH NOVOMESH 950 OR APPROVED EQUAL, APPLICATION RATE 5 LB/CUBIC YARD, FINISH TYPE C-MEDIUM BROOM.
21. ALL CONCRETE REQUIRES 20% MINIMUM CLASS C OR CLASS F FLYASH FOR DE-ICER RESISTANCE. CLASS C NOT ALLOWED WHEN SOILS HAVE SULFATES THAT REQUIRE CDOT 601.04 CLASS 1, 2 OR 3 MITIGATION.
22. MIX DESIGN SUBMITTAL REQUIRED FOR ALL CONCRETE MIXES, AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.
23. NEW ASPHALT SHALL BE (S) (100) PG 64-22. FOR ASPHALT IN PUBLIC RIGHTS-OF-WAY, TOP LIFT SHALL BE (SX) (100) PG 64-22.
24. EXPANSION JOINT SEALANT SHALL BE SIKAFLEX 2C NS, TOOLED, TWO COMPONENT, NON-SAG, POLYURETHANE ELASTOMERIC SEALANT, OR APPROVED EQUAL.
25. EXPANSION JOINTS SHALL TYPICALLY BE LOCATED AT THE BACK OF CURB, AND AT THE INTERFACE OF THE WALKWAY WITH A BUILDING, LIGHT POLE, UTILITY MANHOLE OR OTHER FIXED OBJECT.


**II. TRAFFIC CONTROL & CONSTRUCTION PHASING**

1. THE CONTRACTOR SHALL BE SUBJECT TO LIQUIDATED DAMAGES IN THE AMOUNTS DEFINED IN THE GENERAL CONDITIONS FOR: A) FAILURE TO CONDUCT THE CONTRACTORS' OPERATIONS IN A SAFE MANNER, B) CAUSING UNDUE INCONVENIENCE TO THE TRAVELING PUBLIC (IN THE OPINION OF RTD'S CONSTRUCTION MANAGER), OR C) DELAYS TO SCHEDULE DUE TO THE CONTRACTOR.
2. TRAFFIC CONTROL DEVICES AND BARRICADES MUST BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND APPROVED BY CDOT AND RTD.
3. TRAFFIC CONTROL DEVICES AND BARRICADES MUST BE KEPT IN GOOD WORKING ORDER AT ALL TIMES. NO PAYMENT WILL BE MADE FOR BARRICADES THAT ARE DAMAGED, INOPERABLE, OR HAVE NON-FUNCTIONAL LIGHTS (IF REQUIRED), ETC. IF THE CONTRACTOR EXCEEDS THE WORKING TIME LIMIT FOR THE PROJECT, ALL TRAFFIC CONTROL AND BARRICADING COSTS INCURRED AFTER THE WORKING TIME LIMIT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WILL NOT BE REIMBURSED BY RTD. IF THE WORKING TIME LIMIT IS EXCEEDED BY THE CONTRACTOR, THE PROJECT MUST STILL BE SIGNED AND BARRICADED PROPERLY AND SAFELY AT ALL TIMES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DESIGNATE A TRAFFIC CONTROL SUPERVISOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL AND BARRICADING FOR THE

PROJECT. IT WILL BE THAT PERSON'S RESPONSIBILITY TO MAKE SURE ALL BARRICADES ARE PROPERLY PLACED ON THE PROJECT AT ALL TIMES, AND THAT TRAFFIC IS BEING MAINTAINED AS APPROVED. THE CONTRACTOR MUST CHECK THE BARRICADES EVERY DAY, INCLUDING WEEKENDS AND HOLIDAYS, TO MAKE SURE ALL BARRICADES ARE CORRECTLY PLACED AND FUNCTIONAL. THE COST FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND WILL NOT BE PAID FOR SEPARATELY.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT \_\_\_\_\_ AT LEAST FIVE (5) BUSINESS DAYS BEFORE THE START OF WORK TO INVITE THE AREA INSPECTOR TO THE PRE-CONSTRUCTION MEETING, AND TO APPLY FOR, AT LEAST FIVE (5) DAYS PRIOR TO NEEDING, A REVOCABLE STREET OCCUPANCY PERMIT, A STREET CUT PERMIT, OR A RIGHT-OF-WAY CONSTRUCTION PERMIT.
6. CONSTRUCTION AREAS SHALL NOT BE RE-OPENED TO TRAFFIC WITHOUT APPROVAL BY CDOT AND RTD.
7. SUBMIT ALL PERMIT REQUESTS AND FORMS AND MHTS TO \_\_\_\_\_. PROVIDE COPIES OF ALL APPROVED PERMITS, FORMS AND MHTS TO CDOT AND RTD.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING BUS STOPS DURING CONSTRUCTION, INCLUDING MAINTAINING ADA-COMPLIANT PEDESTRIAN ACCESS BETWEEN THE NORTHBOUND AND SOUTHBOUND STOPS, AND FROM THE BUS STOPS TO ADJACENT PEDESTRIAN FACILITIES. CONTRACTOR SHALL MAINTAIN BUS ACCESS INTO AND OUT OF THE BUS STOPS, AND SHALL MAINTAIN AN ADA-COMPLIANT BOARDING AREA AT EACH BUS STOP.

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III. UTILITIES

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROJECT, AND THIS WILL INCLUDE POTHOLING.
- POTHOLES OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NOT ALL SERVICE LINES ARE SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RECONNECT ALL EXISTING SERVICES THAT MAY BE IMPACTED.
- THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987 OR 811 TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
- THE CONTRACTOR SHALL COOPERATE AND COORDINATE ALL UTILITY WORK WITH THE CONCERNED UTILITY COMPANY OR AGENCY, AS WELL AS CDOT AND RTD.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADJUST AND/OR REPLACE ALL WATER VALVE BOXES AND MUNICIPALLY OWNED MANHOLES TO MEET FINAL GRADES IN THIS CONSTRUCTION AREA.
- PRIVATE UTILITY OWNERS ARE REQUIRED TO RESET, ADJUST, OR REPLACE ANY PRIVATE UTILITIES THAT ARE IMPACTED BY CONSTRUCTION AND DESIGNATED TO REMAIN.
- ALL PERMITS AND/OR BONDS REQUIRED BY UTILITY OWNERS FOR CONSTRUCTION PERFORMED BY THE CONTRACTOR WILL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 01 03 40 OF THE SPECIFICATIONS CONCERNING UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ONSITE DURING POTHOLING AND SHALL LIKEWISE BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REFER TO THE UTILITY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

III. QUALITY OVERSIGHT PROGRAM

- THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH RTD'S QUALITY OVERSIGHT PROGRAM.

V. SURVEY AND EXISTING CONDITION NOTES:

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED WITHIN CDOT-OWNED PUBLIC RIGHT OF WAY EXCEPT WHERE NOTED.
- RTD WILL MAKE CAD FILES AVAILABLE TO THE CONTRACTOR'S SURVEYOR, TO ASSIST IN LAYOUT.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL SURVEY MONUMENTS, BENCH MARKS, RANGE TIES, PROPERTY MARKERS, REFERENCE POINTS, AND STAKES. IN CASE OF HIS DESTRUCTION OF THESE, THE CONTRACTOR WILL BE CHARGED WITH THE EXPENSE OF REPLACEMENT AND SHALL BE RESPONSIBLE FOR ANY MISTAKE OR LOSS OF TIME THAT MAY BE CAUSED.

VI. SIGNING AND STRIPING

- SIGNING AND STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM

TRAFFIC CONTROL DEVICES (MUTCD). WHERE MUTCD HAS NO STANDARDS, CDOT STANDARDS AND SPECIFICATIONS SHALL BE FOLLOWED. WHERE CDOT HAS NO STANDARDS, RTD STANDARDS AND SPECIFICATIONS SHALL BE FOLLOWED.

- SIGN PANEL MATERIALS SHALL CONFORM TO CDOT SECTION 713 AND TO THE DETAILS SHOWN ON THE PLANS. RETROREFLECTIVE SHEETING SHALL BE TYPE IV AS DEFINED IN THE CDOT RETROREFLECTIVE SHEETING MATERIALS GUIDE, AND SHALL CONFORM TO SUBSECTIONS 713.04 AND 713.07 WHEN APPLICABLE.
- THE CONTRACTOR SHALL PROVIDE SIGN PANEL LEGENDS FOR STANDARD SIGNS IN ACCORDANCE WITH THE "STANDARD HIGHWAY SIGNS" PUBLISHED BY THE FHWA AND THE COLORADO SUPPLEMENT THERETO, AND SIGN PANEL LEGENDS FOR SPECIAL SIGNS IN ACCORDANCE WITH THE DETAILED SIGN LAYOUTS PROVIDED BY THE ENGINEER.
- SIGN SUPPORTS SHALL BE 2 BY 2 INCH SQUARE TUBING WITH ANCHOR SLEEVE-POSTS PER SIGNAGE DETAIL SHEETS.
- NEW SIGN POSTS AND SIGN FOUNDATIONS SHALL BE PROVIDED FOR ALL RESET GROUND SIGNS.
- THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO INSTALLING SIGN POSTS AND ASSOCIATED FOOTINGS. LOCATIONS OF SIGNS SHALL BE ADJUSTED AS NECESSARY TO AVOID CONFLICTS WITH UTILITIES.
- PAVEMENT MARKING: CROSSWALKS, STOP BARS, AND TURN LANE ARROWS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING. ALL OTHER PAVEMENT MARKINGS SHALL BE EPOXY PAVEMENT MARKING UNLESS OTHERWISE NOTED.



VII. ENVIRONMENTAL

- CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISIBLE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY ON WHICH THE EMISSIONS ORIGINATE. THE MEASURES TAKEN MUST BE EFFECTIVE IN THE CONTROL OF FUGITIVE PARTICULATE EMISSIONS AT ALL TIMES ON THE SITE, INCLUDING PERIODS OF INACTIVITY SUCH AS EVENINGS, WEEKENDS, AND HOLIDAYS AS WELL AS ANY OTHER PERIOD OF INACTIVITY.
- DURING ANY SOIL DISTURBING ACTIVITIES, IF UNKNOWN/UNIDENTIFIED UNDERGROUND STORAGE TANKS, DRUMS, ODOROUS SOIL, STAINED SOIL, ASBESTOS-CEMENT PIPE (TRANSITE), BUILDING DEBRIS OR WASTE MATERIALS ARE ENCOUNTERED DURING THE PROJECT, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA OF THE DISCOVERY UNTIL \_\_\_\_\_ MAKES A DETERMINATION OF HOW TO PROCEED. CONTRACTOR SHALL IMMEDIATELY NOTIFY \_\_\_\_\_ OF THE DISCOVERY VIA THE PHONE NUMBER \_\_\_\_\_.
- NOISE CONTROL: EXEMPTED HOURS FOR CONSTRUCTION IN THE CITY OF BOULDER ARE FROM \_\_\_\_\_ PER SECTION \_\_\_\_\_ OF THE CITY OF BOULDER NOISE ORDINANCE, ARTICLE \_\_, BOULDER MUNICIPAL CODE. (SIMILAR STATEMENT FOR BOULDER COUNTY). IF THERE IS AN ANTICIPATED NEED TO WORK OUTSIDE OF THE EXEMPTED HOURS FOR CONSTRUCTION: 1) THE CONTRACTOR WILL NEED TO MAKE A REQUEST FOR A NIGHTTIME NOISE EXCEPTION FROM THE DIRECTOR OF PUBLIC WORKS, AND 2) THE EXCEPTION REQUEST NEEDS TO BE SUBMITTED A MINIMUM OF ONE MONTH PRIOR TO THE DESIRED START DATE OF ANY WORK NEEDING TO OCCUR OUTSIDE OF EXEMPTED HOURS. ANY NOISE VARIANCE QUESTIONS SHOULD BE DIRECTED TO THE DEPARTMENT OF PUBLIC WORKS A MINIMUM OF TWO MONTHS PRIOR TO THE START OF THE PROJECT.

VIII. CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMIT (CASDP) NOTES

- THE PERMITTEE AND/OR CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO OR, ACCUMULATE IN, THE FLOWLINES, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, RECEIVING WATERS, WATERWAYS, WETLANDS, AND OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
- SOIL STABILIZATION MEASURES SHALL BE IMPLEMENTED WITHIN FOURTEEN (14) DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES. STABILIZATION OF DISTURBED AREAS ADJACENT TO RECEIVING WATERS OR WITH SLOPES 3 TO 1 OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES. NOTE: FEDERAL AND STATE REGULATIONS MAY SOON REQUIRE STABILIZATION WITHIN SEVEN (7) DAYS OF COMPLETION OF GRADING ACTIVITIES. IN SUCH CASES, THE SHORTER TIMEFRAME SHALL APPLY TO THIS PROJECT AS WELL.
- THE DEVELOPER, GENERAL CONTRACTOR, GRADING CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY.
- THE USE OF REBAR TO ANCHOR BEST MANAGEMENT PRACTICES IS PROHIBITED. STEEL FENCE POSTS MAY BE USED ON A CASE BY CASE BASIS AND REQUIRES APPROVAL FROM THE CITY SWMP REVIEWER OR THE STORMWATER ENFORCEMENT INVESTIGATOR PRIOR TO INSTALLATION.
- SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. STABILIZATION OF STOCKPILES LOCATED WITHIN 100 FEET OF RECEIVING WATERS, OR WITH SLOPES 3 TO 1 OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING STOCKPILE CONSTRUCTION. STABILIZATION AND PROTECTION OF THE STOCKPILE MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING: MULCHING, TEMPORARY/PERMANENT REVEGETATION OPERATIONS, CHEMICAL SOIL STABILIZER APPLICATION (REQUIRES PUBLIC WORKS APPROVAL), OR EROSION CONTROL MATTING/GEOTEXTILES. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF RECEIVING WATERS, A DRAINAGEWAY OR THE SITE PERIMETER, ADDITIONAL SEDIMENT CONTROLS SUCH SHALL BE REQUIRED.

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	Unit Information					Void:	Detailer: FBT			
					Sheet Subset: RTD	Subset Sheets: 4 of 16		Sheet Number G-004		

VIII. CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMIT (CASDP) NOTES (CONT'D)

ENVIRONMENT'S TRAINING VIDEO ENTITLED "BUILDING FOR A CLEANER ENVIRONMENT, READY MIX WASHOUT TRAINING", AND ITS ACCOMPANYING MANUAL ENTITLED, "READY MIX WASHOUT GUIDEBOOK, VEHICLE AND EQUIPMENT WASHOUT AT CONSTRUCTION SITES."

- 7. APPROVED EROSION AND SEDIMENT CONTROL 'BEST MANAGEMENT PRACTICES' SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE PERMITTEE OR CONTRACTOR SHALL PRODUCE AND RETAIN WEEKLY WRITTEN INSPECTION RECORDS FOR ALL BMPs AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY. ADDITIONALLY, STREET SWEEPING IS TO BE COMPLETED BY THE CLOSE OF THE BUSINESS DAY OR (AND) ON AN AS NEEDED BASIS THROUGHOUT THE DAY.
- 8. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED.
- 9. PAVED AND IMPERVIOUS SURFACES WHICH ARE ADJACENT TO CONSTRUCTION SITES MUST BE SWEEPED ON A DAILY BASIS AND AS NEEDED DURING THE DAY WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ONTO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.
- 10. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) ON SITE DURING CONSTRUCTION:
  - A) THE CONTRACTOR SHALL ENSURE THAT MUD AND DEBRIS FROM THE WORK SITE IS NOT TRACKED ONTO ADJACENT STREETS.
  - B) INLET PROTECTION: THIS BMP IS REQUIRED ON ALL EXISTING OR PROPOSED STORM SEWER INLETS IN THE VICINITY OF THE CONSTRUCTION SITE THAT MAY RECEIVE SITE RUNOFF. THE BMP MUST BE APPROPRIATE TO THE TYPE OF STORM INLET AND APPROPRIATE FOR THE GROUND SURFACE AT THE INLET.
  - C) INTERIM SITE STABILIZATION: THESE BMPs PREVENT DISCHARGE OF SEDIMENT FROM SITES WITH OVERLOT GRADING. MEASURES INCLUDE TEMPORARY SEEDING, MULCHING, AND SOIL STABILIZERS.
  - D) WASTE MANAGEMENT/CONTAINMENT: THIS BMP REQUIRES THAT ALL CONSTRUCTION WASTES, FUELS, LUBRICANTS, CHEMICAL WASTES, TRASH, SANITARY WASTES, CONTAMINATED SOILS OR DEBRIS SHALL BE CONTAINED ON SITE, PROTECTED FROM CONTACT WITH PRECIPITATION OR SURFACE RUNOFF, PERIODICALLY REMOVED FROM THE CONSTRUCTION SITE, AND PROPERLY DISPOSED OF.
  - E) SPILL PREVENTION /CONTAINMENT: THIS BMP DEFINES THE MEASURES PROPOSED FOR PREVENTING, CONTROLLING, OR CONTAINING SPILLS OF FUEL, LUBRICANTS, OR OTHER POLLUTANTS; AND PROTECTING POTENTIAL POLLUTANTS FROM CONTACT WITH PRECIPITATION OR RUNOFF.
  - F) CHUTE WASHOUT CONTAINMENT: WATER USED IN THE CLEANING OF READY MIXED CONCRETE TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED CONTAINER ON THE JOB SITE, OR TAKEN OFF-SITE.
    - a. SHOULD A PREDEFINED BERMED CONTAINMENT AREA NOT BE AVAILABLE DUE TO THE PROJECT SIZE, OR LACK OF AN AREA WITH A SUITABLE GROUND SURFACE FOR ESTABLISHING A CONTAINMENT AREA, PROPER DISPOSAL OF READY MIX WASHOUT AND RINSE OFF WATER AT THE JOB SITE SHALL CONFORM TO THE APPROVED TECHNIQUES AND PRACTICES IDENTIFIED IN THE COLORADO DEPARTMENT OF PUBLIC HEALTH &


- b. THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED.
  - c. INFORMATION ABOUT, OR COPIES OF THE VIDEO AND TRAINING MANUAL ARE AVAILABLE FROM THE WATER QUALITY CONTROL DIVISION, COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80222-1530, (303) 692-3555.
- G) PERIMETER CONTROL: THIS BMP REQUIRES THAT A CONSTRUCTION SITE INSTALL A PERIMETER CONTROL MEASURE ALONG THE EDGE OF THE CONSTRUCTION SITE, TO PREVENT, OR FILTER THE DISCHARGE OF SURFACE RUNOFF FROM THE CONSTRUCTION SITE. THE TYPE OF PERIMETER CONTROL USED SHALL BE DETERMINED BASED ON SITE CONDITIONS AND LOCATION. MAINTENANCE AND REPAIR OF THE CONTROL MEASURE SHALL OCCUR AS NEEDED, IN A TIMELY MANNER.
- 11. THE JOBSITE SHALL BE CLEANED DAILY. TEMPORARY STOCKPILES OF SOIL SHALL NOT BE IN PLACE FOR MORE THAN 48-HOURS.
- IX. DEMOLITION
- 1. THESE NOTES APPLY TO ALL DEMOLITION SHEETS.
  - 2. ITEMS NOTED AS SURRENDER ARE TO BE DELIVERED AND SURRENDERED TO RTD AT 1405 QUAIL STREET, LAKEWOOD, CO 80215. IF AN ITEM IS DETERMINED TO BE DAMAGED DUE TO NEGLIGENCE ON BEHALF OF THE CONTRACTOR, THE ITEM SHALL BE REPLACED IN KIND AT CONTRACTORS EXPENSE.
  - 3. FOR ITEMS NOTED AS CONTACT, THE CONTRACTOR IS RESPONSIBLE FOR CALLING THE RIGHTFUL OWNER AND ARRANGE FOR THE OWNER TO REMOVE THE ITEM FROM THE SITE. IF THE ITEM CANNOT BE REMOVED IN A TIMELY MANNER THE CONTRACTOR SHALL REMOVE AND STORE THE ITEM UNTIL THE OWNER CAN RETRIEVE IT. IF IT IS DETERMINED THAT A REASONABLE ATTEMPT HAS BEEN MADE TO CONTACT THE OWNER AND THEY HAVE NOT RETRIEVED IT OR IF THE OWNER NO LONGER WANTS THE ITEM IT BECOMES THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF IT.
  - 4. ALL ITEMS THAT ARE NOT NOTED ARE TO BE DISPOSED OF BY THE CONTRACTOR.
  - 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OWNERS OF NEWSPAPER RACKS AND HAVE THEM REMOVED FROM THE SITE.
  - 6. ALL RTD FLAG STOPS TO BE SURRENDERED TO RTD.
  - 7. "NO PARKING" SIGNS TO BE REUSED ON THE PROJECT WHERE POSSIBLE.
  - 8. ALL ITEMS OWNED BY AD COMPANIES REQUIRE COORDINATION WITH RESPECTIVE AD COMPANIES FOR REMOVAL/ RE-USE/ RESET.
  - 9. ALL AREAS OF ROADWAY PAVEMENT REMOVAL ARE TO BE SAW CUT THE FULL DEPTH OF THE EXISTING PAVEMENT TO THE LIMITS SHOWN ON THE PLANS, THE EDGE OF THE CUT SHALL BE STRAIGHT NEAT AND CLEAN.
  - 10. CONCRETE WALLS NOTED TO BE REMOVED SHALL BE REMOVED TO 12" BELOW GRADE.
  - 11. THICKNESS AND/OR DIMENSIONS OF CURB & GUTTER, SIDEWALK, PAVEMENT AND OTHER ITEMS TO BE REMOVED MAY VARY. REMOVAL OF ITEMS SHALL BE COMPLETE REGARDLESS OF ACTUAL DIMENSIONS ENCOUNTERED.

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CONSTRUCTION**

**FIR SUBMITTAL**

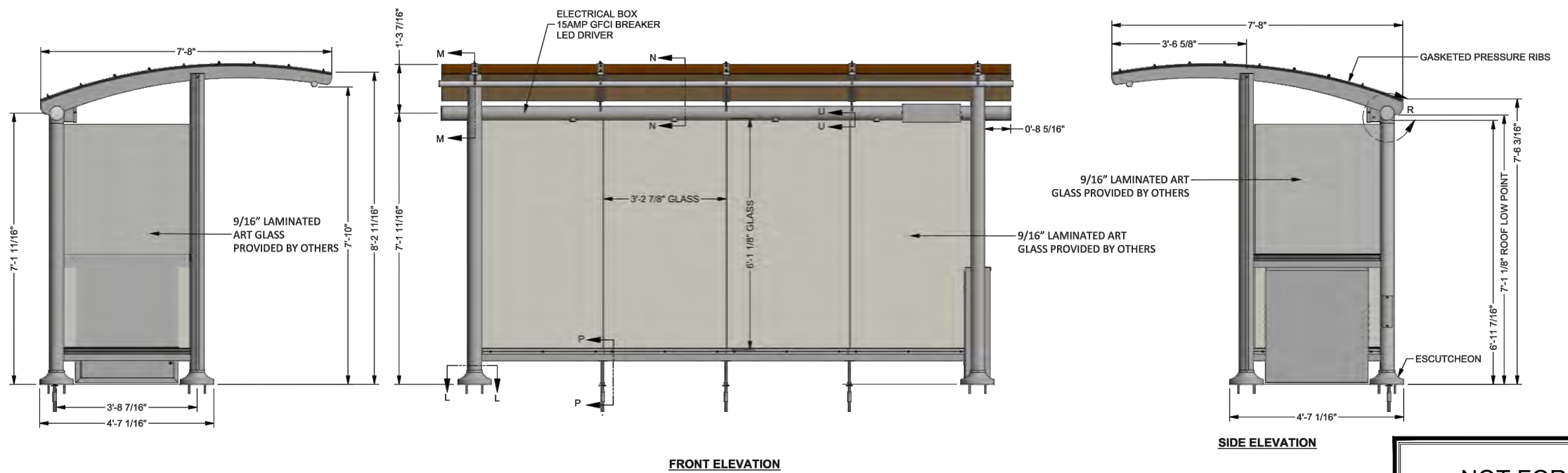
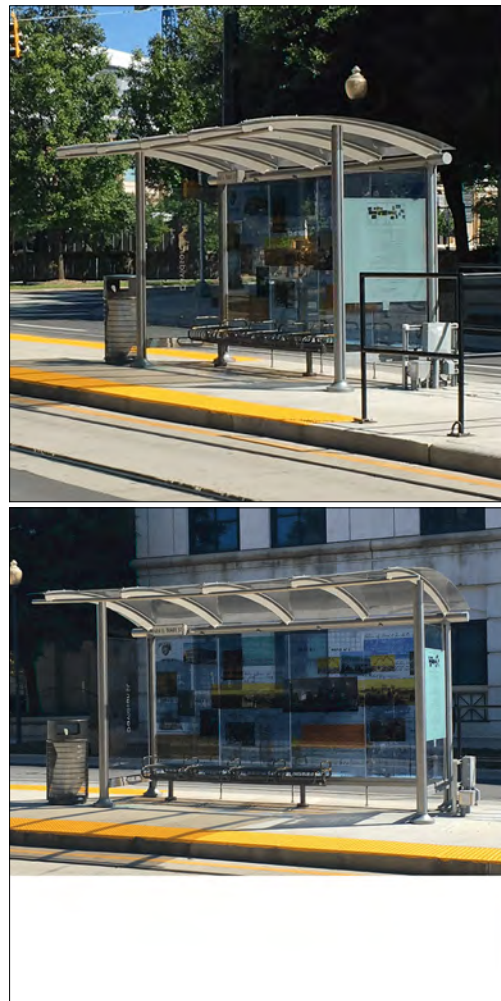
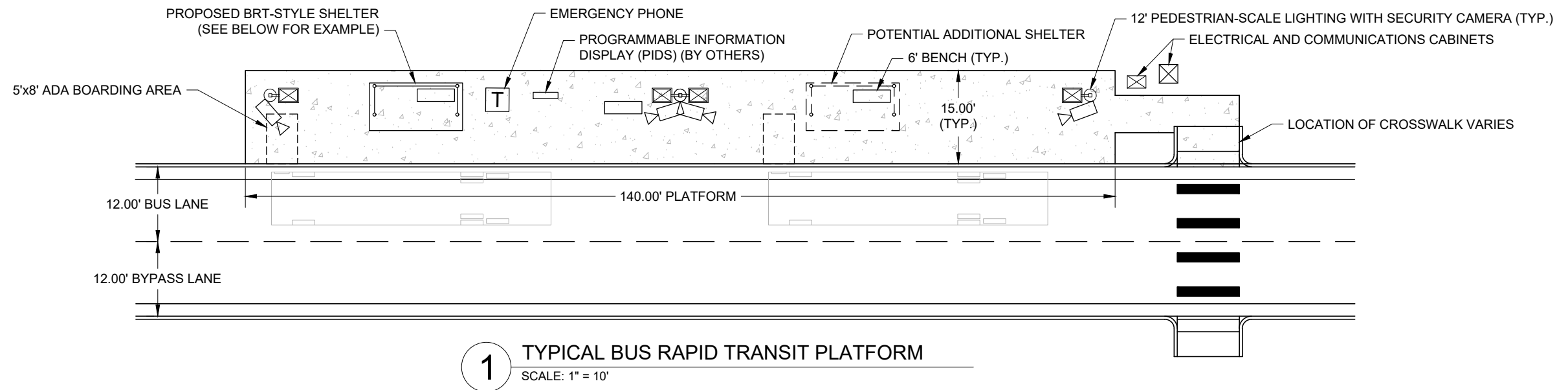
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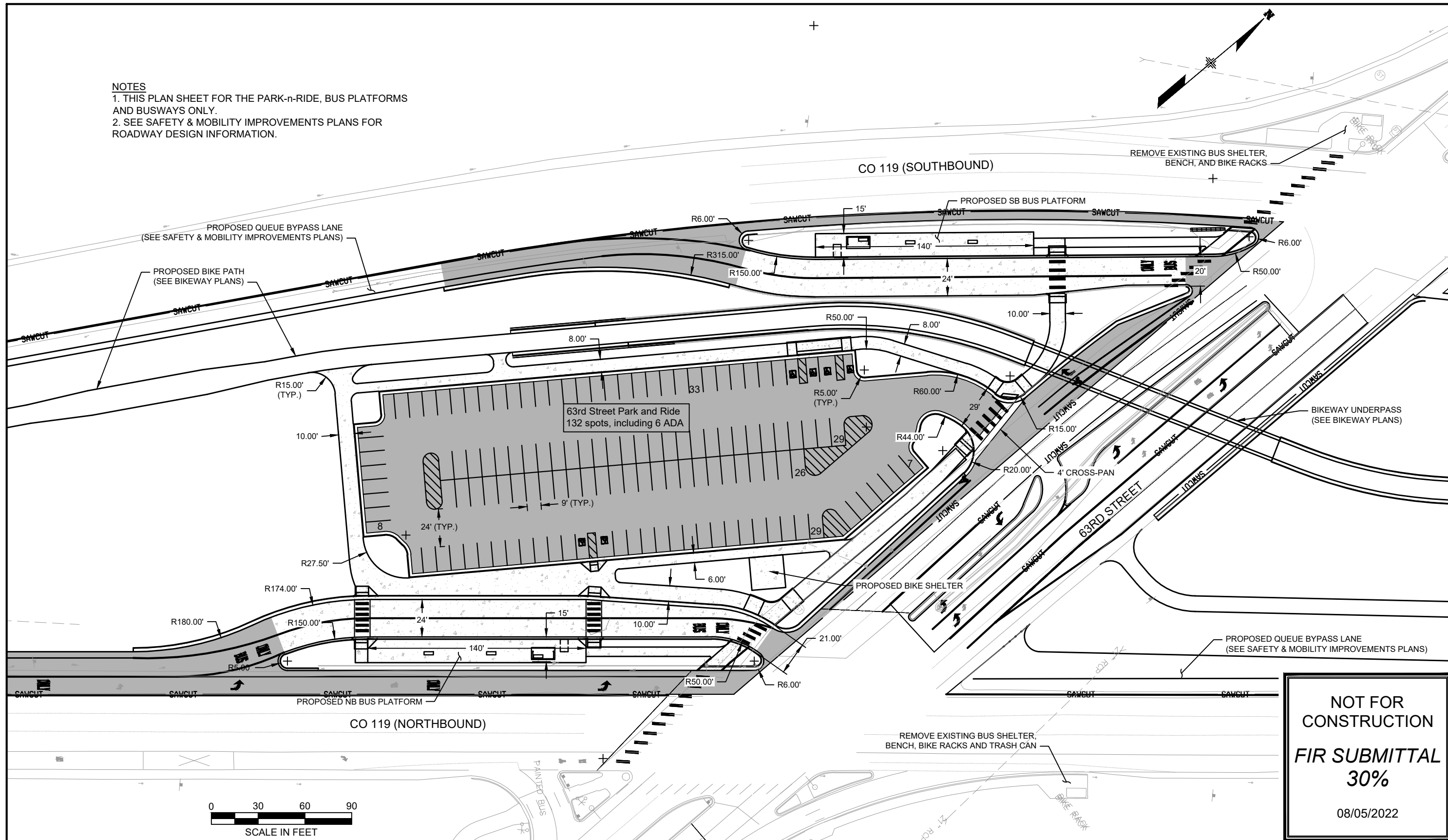
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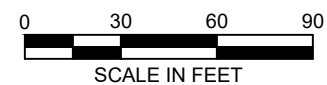


**NOTES**

1. THIS PLAN SHEET FOR THE PARK-n-RIDE, BUS PLATFORMS AND BUSWAYS ONLY.
2. SEE SAFETY & MOBILITY IMPROVEMENTS PLANS FOR ROADWAY DESIGN INFORMATION.

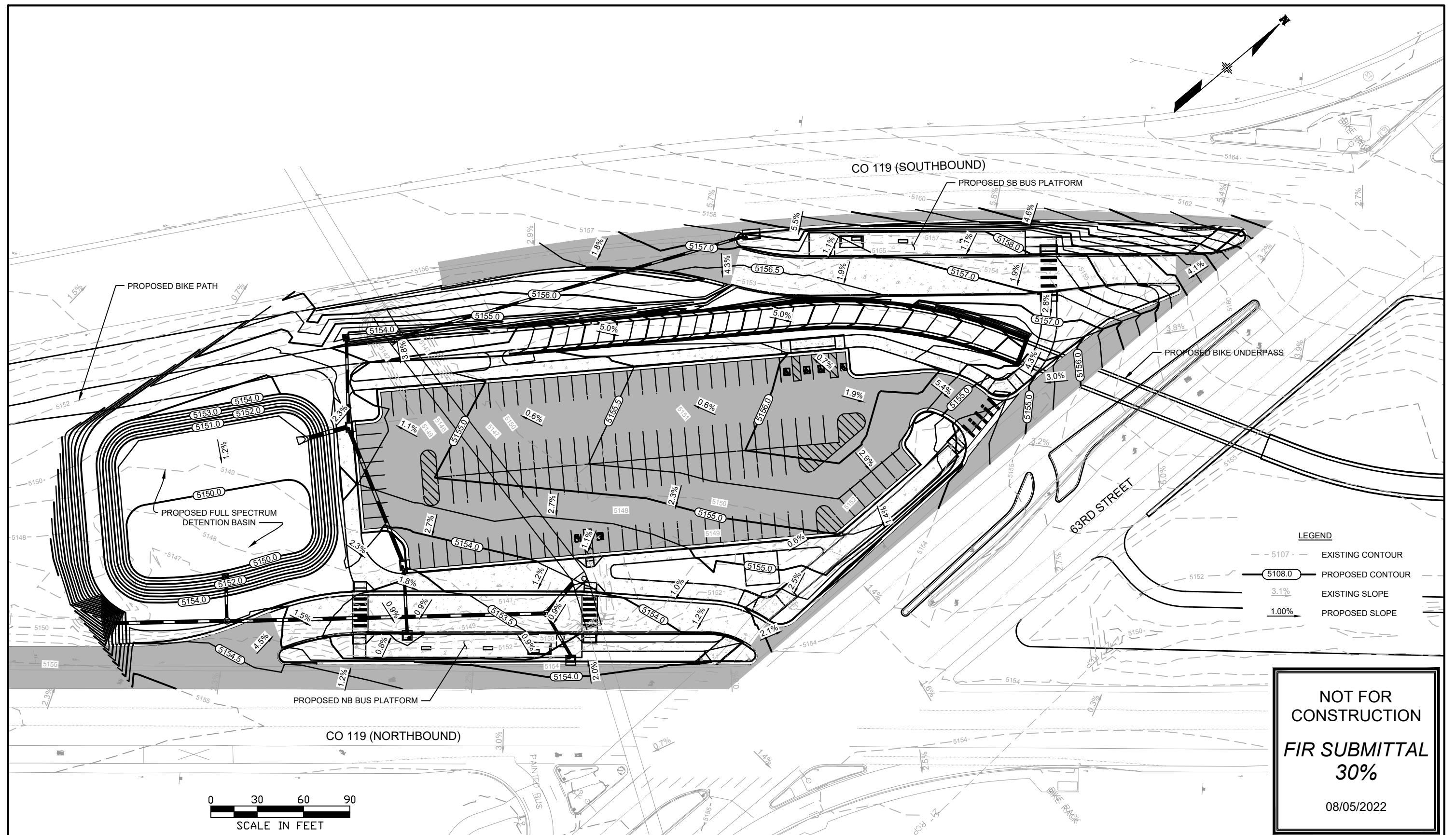


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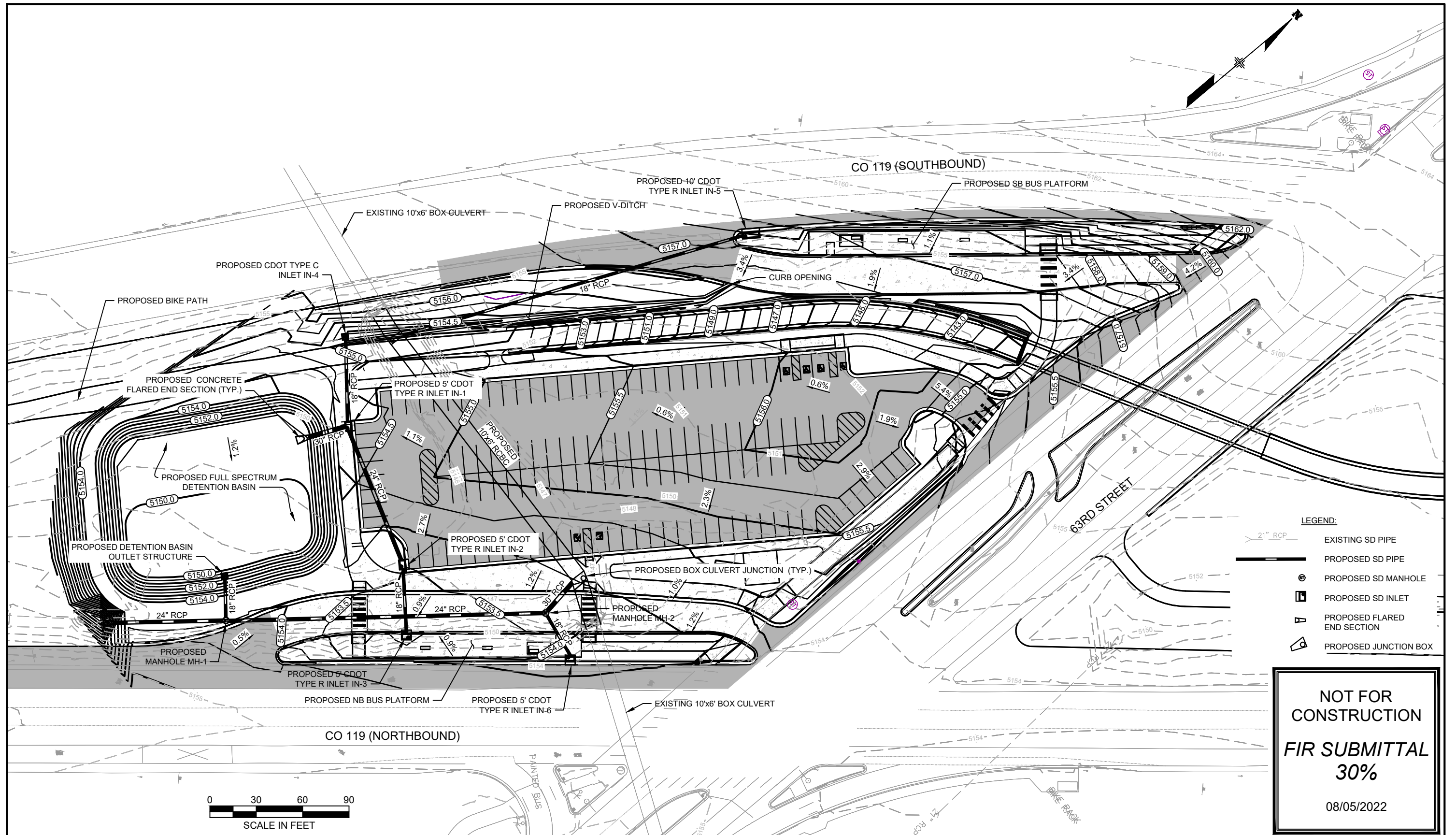
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**Region 4** **ALG**

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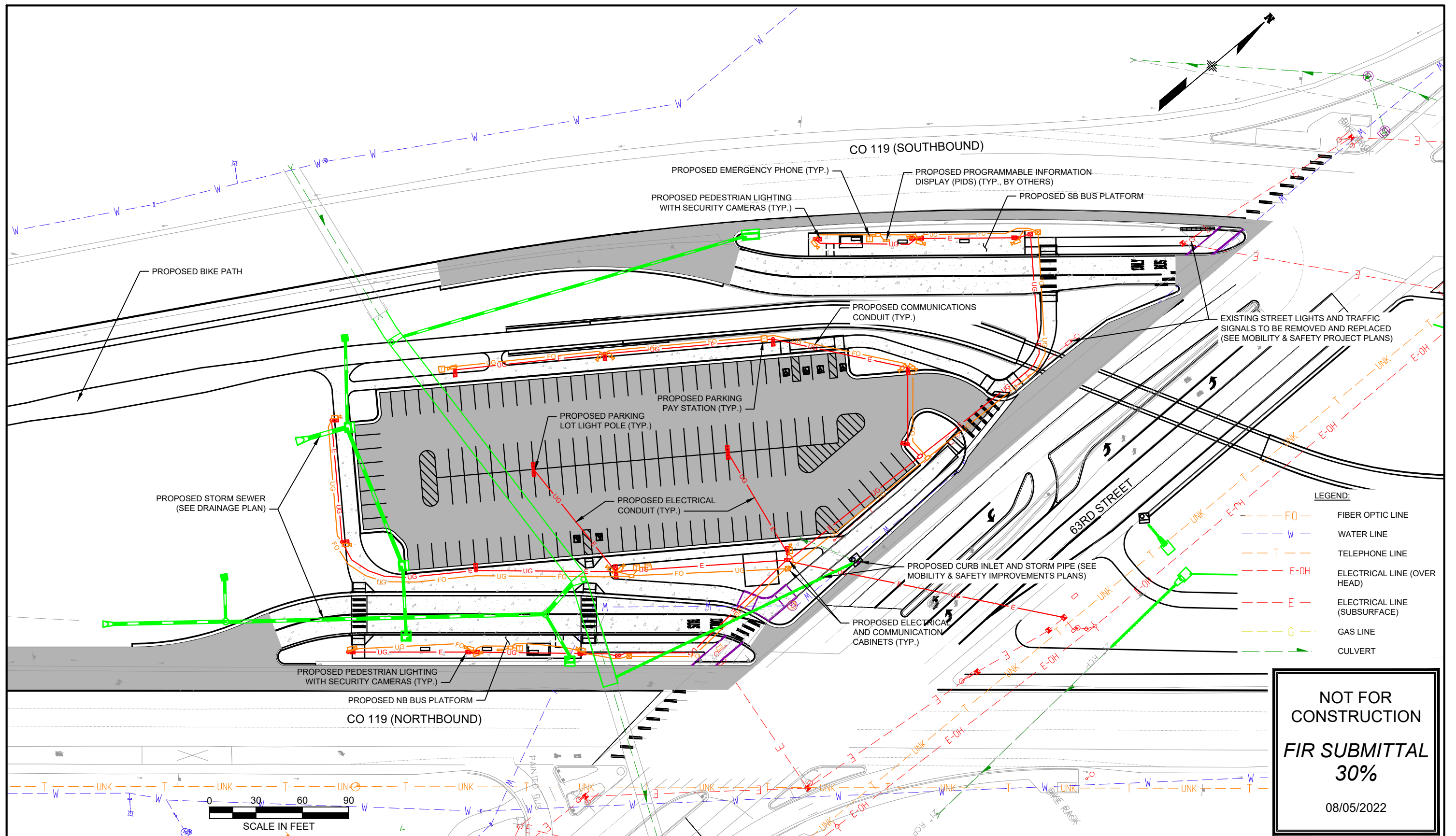
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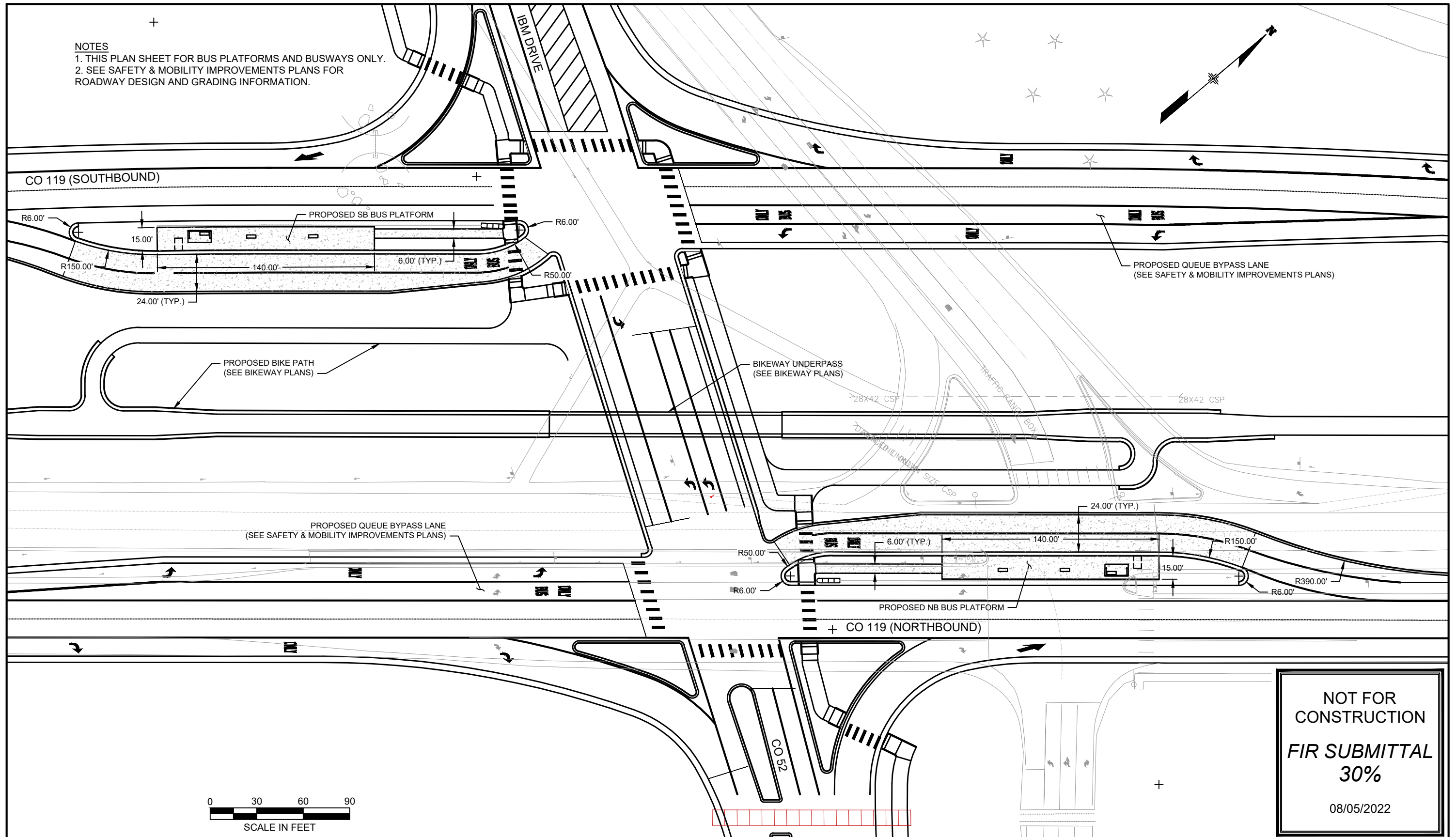
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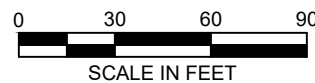


**NOTES**

1. THIS PLAN SHEET FOR BUS PLATFORMS AND BUSWAYS ONLY.
2. SEE SAFETY & MOBILITY IMPROVEMENTS PLANS FOR ROADWAY DESIGN AND GRADING INFORMATION.

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**C0119 MOBILITY  
HWY 52 PLATFORMS  
SITE PLAN**

Designer:	FBT	Structure Numbers	
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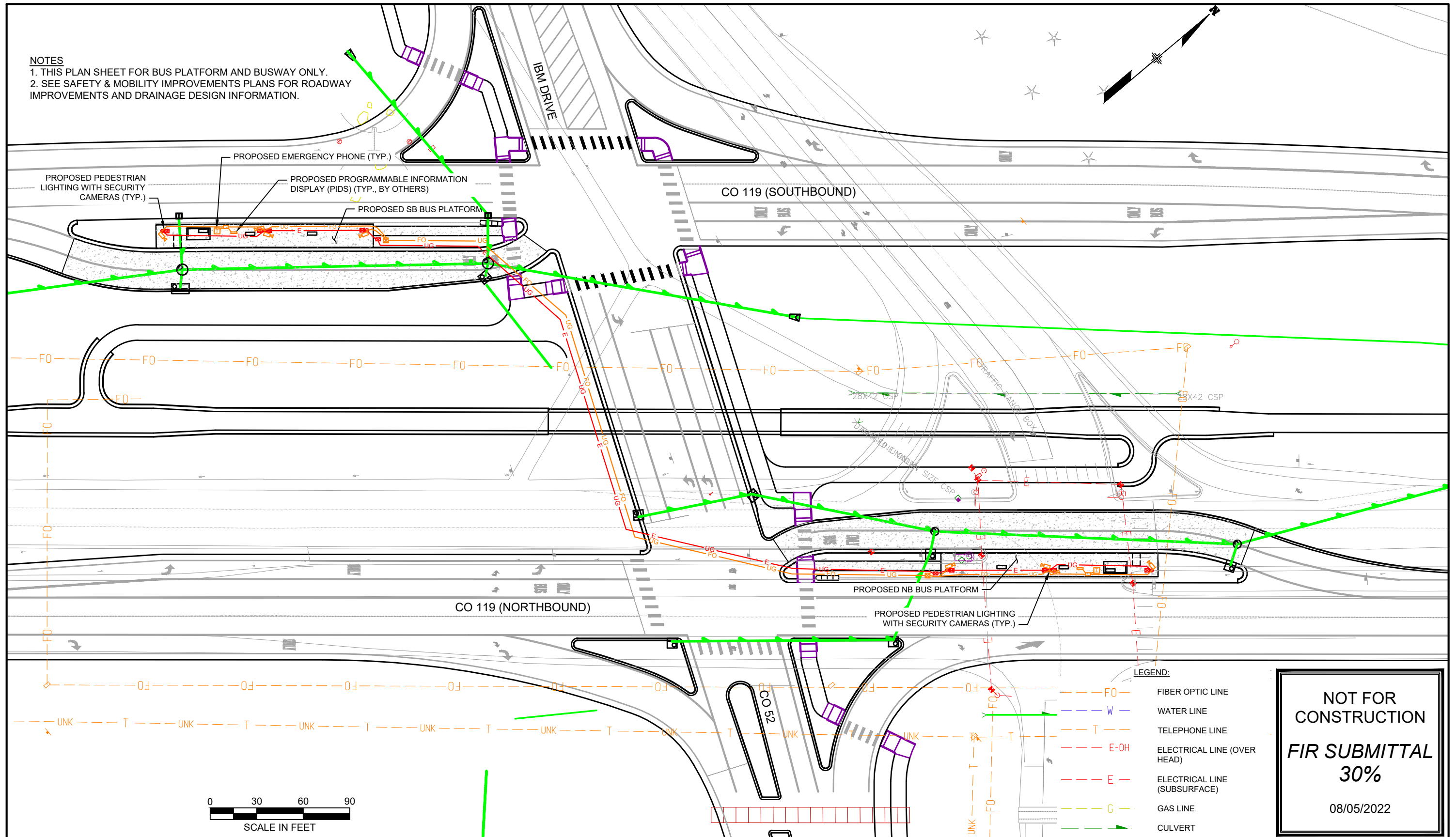
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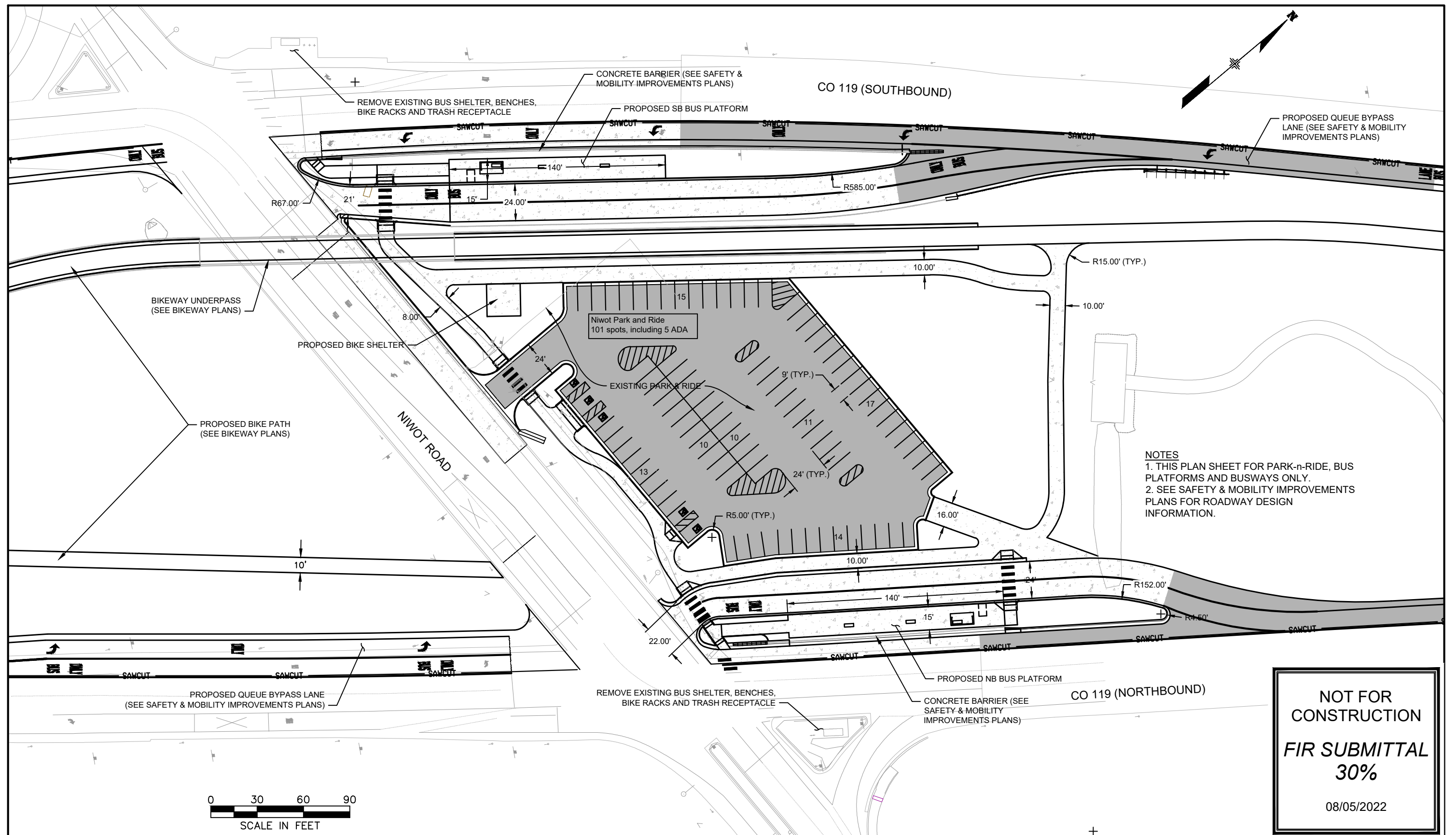
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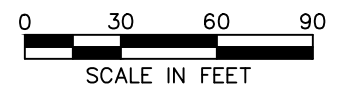
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**NOTES**  
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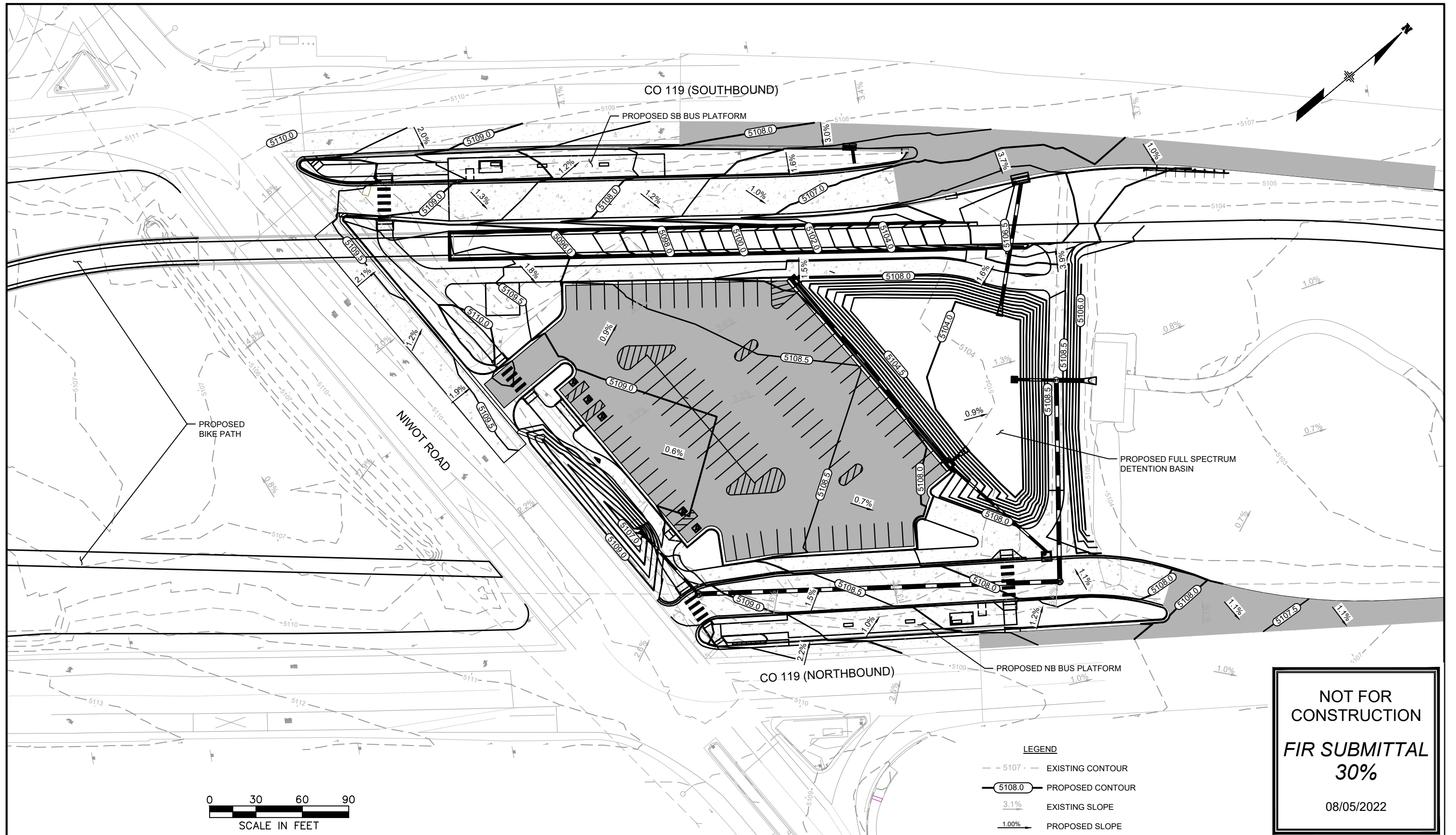
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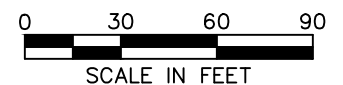
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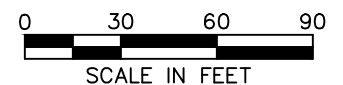
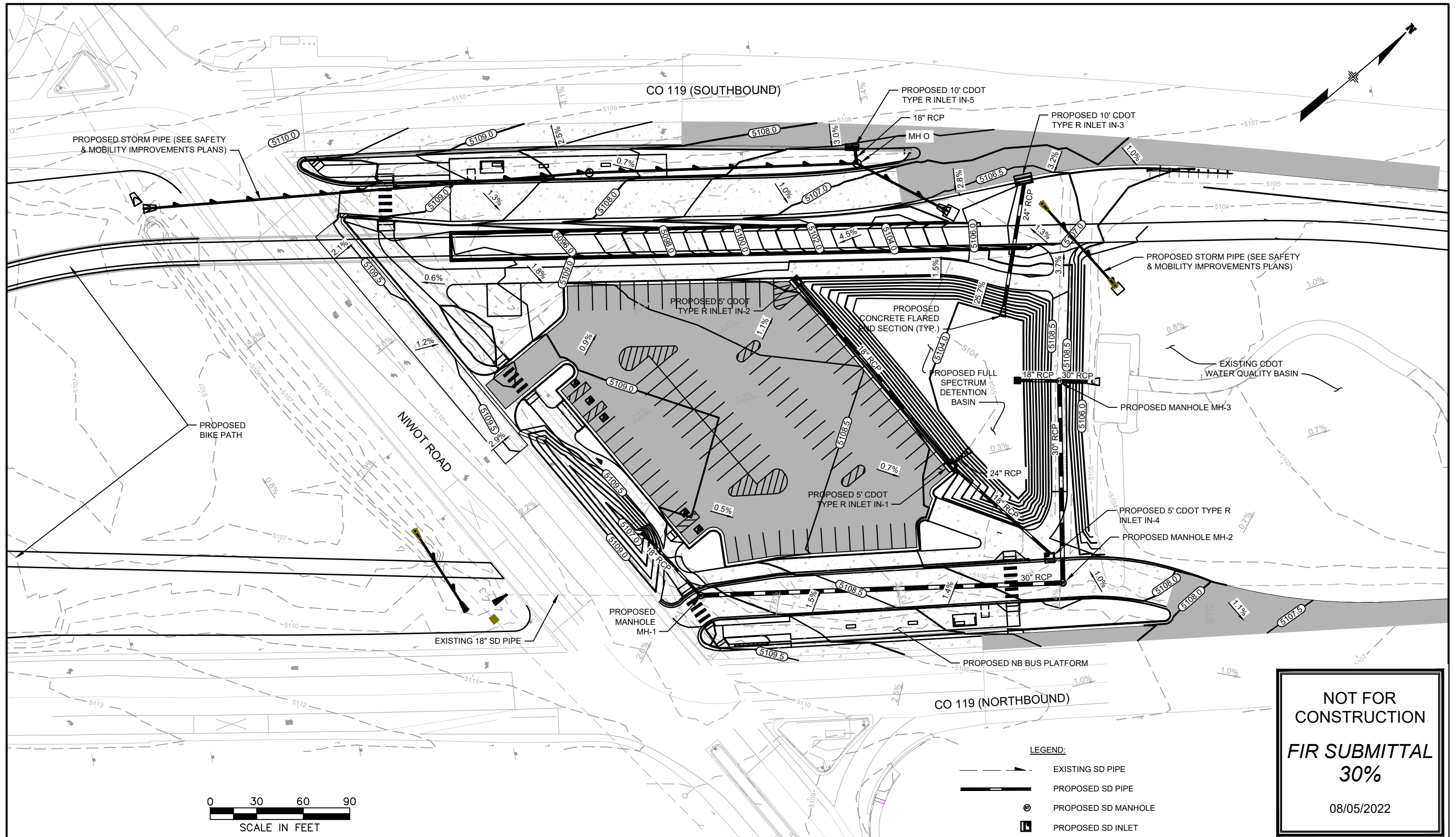


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- 3.1% EXISTING SLOPE
- 1.00% PROPOSED SLOPE

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/4/2022 File Name: CO119 BRT Niwot_GRADING.dwg Horiz. Scale: As Noted Vert. Scale: As Noted Unit Information	<b>RTD</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.										Colorado Department of Transportation  1050 Lee Hill Road Boulder, CO 80302 Phone: 303-546-5676 FAX: 303-444-0751 <b>Region 4</b>	As Constructed No Revisions: Revised: Void:	<b>CO119 MOBILITY NIWOT ROAD PARK-n-RIDE GRADING PLAN</b> Designer: FBT Detailer: AM Sheet Subset: RTD Structure Numbers: Subset Sheets: 14 of 16	Project No./Code 21497 Sheet Number C-008
	Sheet Revisions																					
Date:	Comments	Init.																				
		ALG	12																			





**LEGEND:**

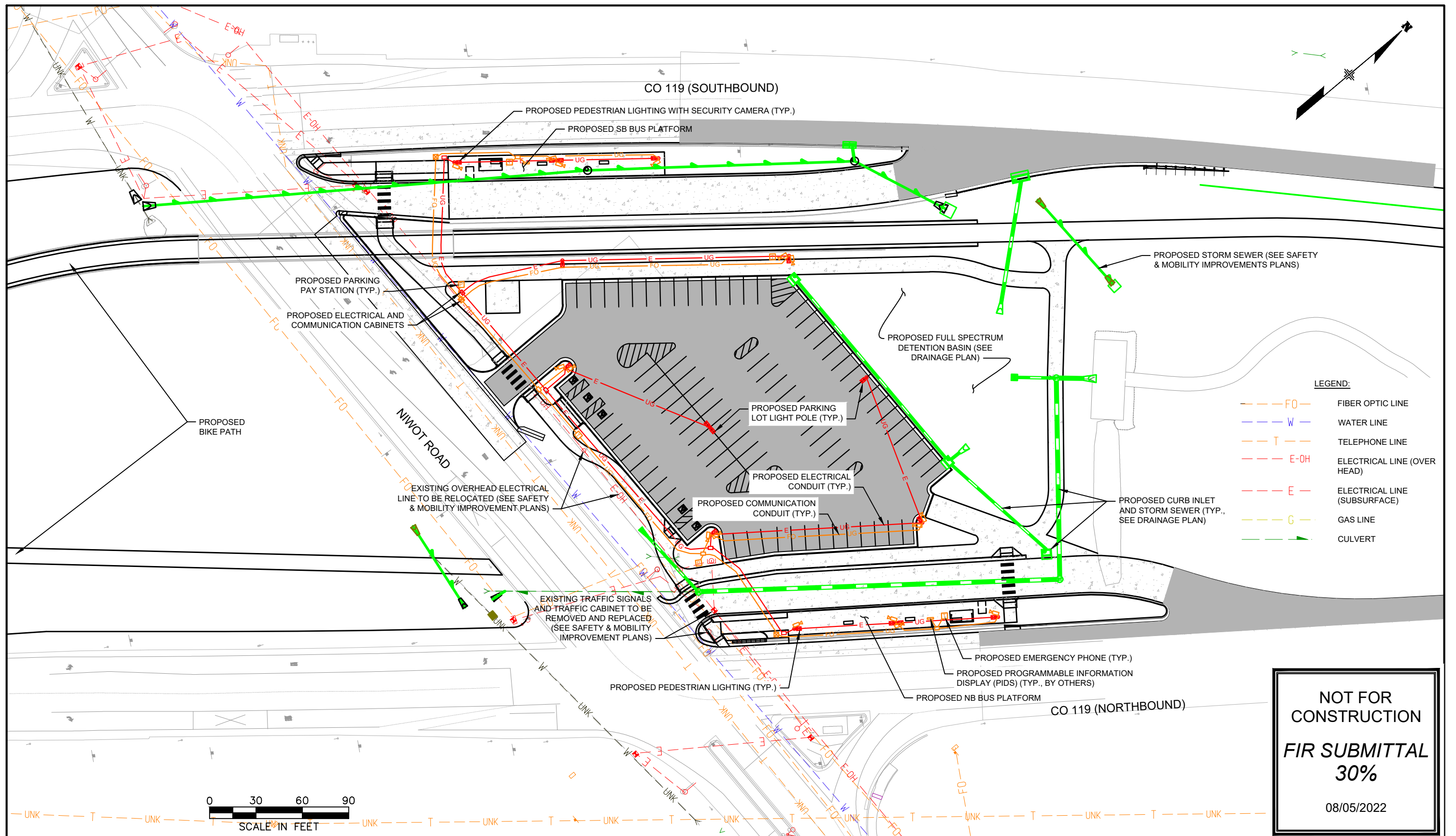
- EXISTING SD PIPE
- PROPOSED SD PIPE
- PROPOSED SD MANHOLE
- PROPOSED SD INLET

**NOT FOR  
CONSTRUCTION**

**FIR SUBMITTAL  
30%**

08/05/2022

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	Sheet Revisions																						
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		ALG	12																				



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CONSTRUCTION**  
**FIR SUBMITTAL**  
**30%**  
08/05/2022

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