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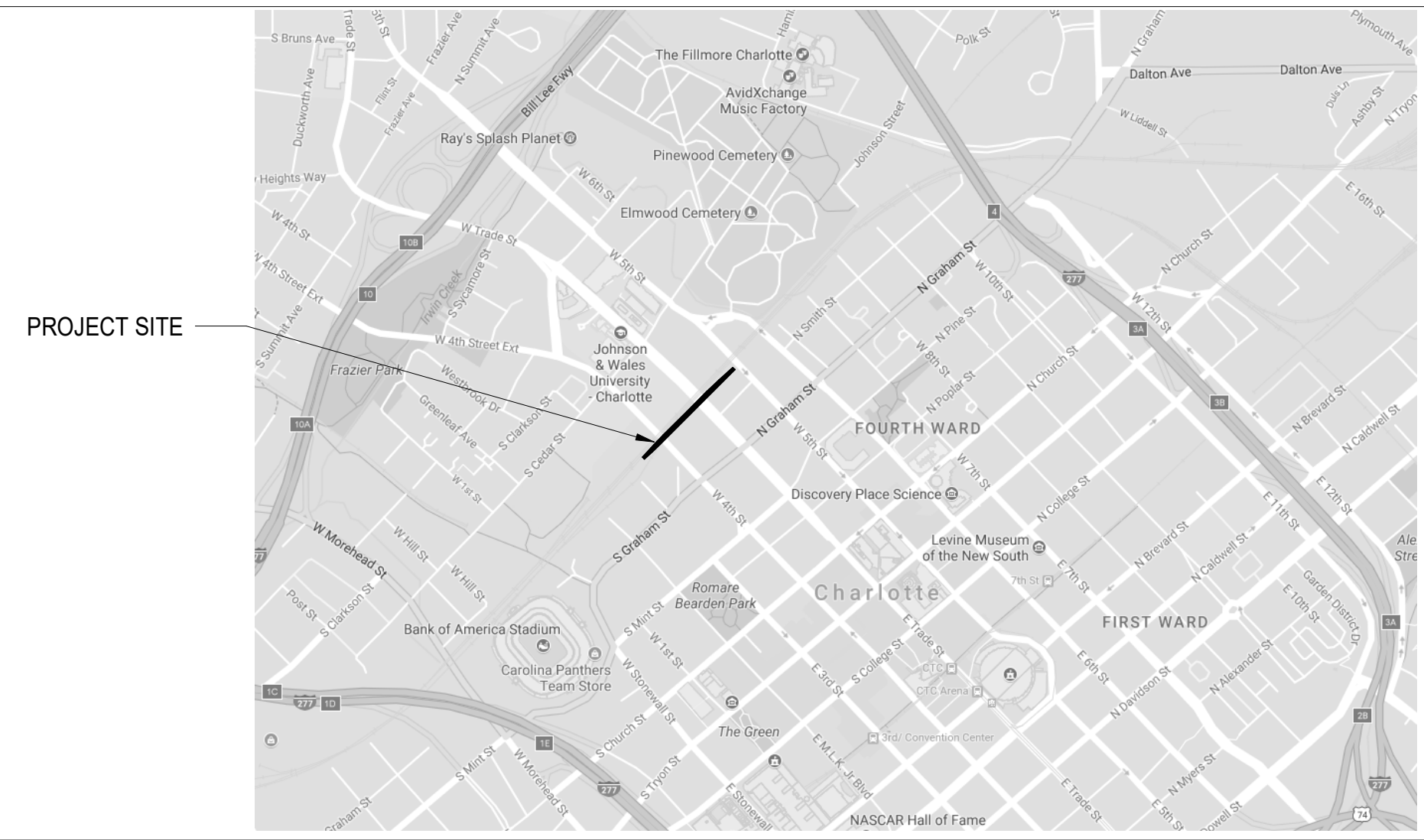
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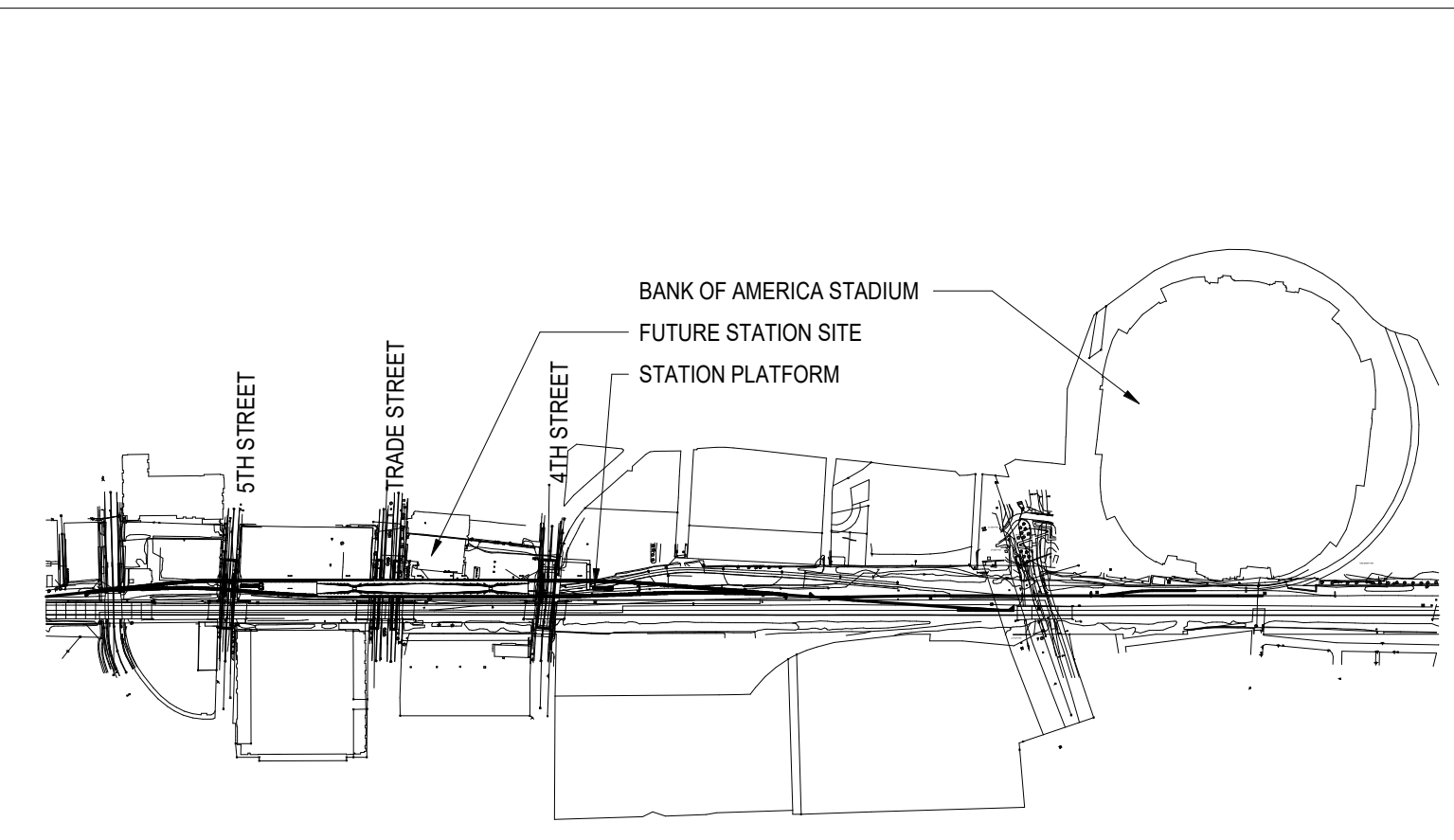
DRAWING INDEX

SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE
S-001	INDEX SHEET	S-332	REINFORCEMENT ELEVATION - BAGGAGE RAMP WEST
S-002	STRUCTURAL GENERAL NOTES	S-333	REINFORCEMENT ELEVATION - BAGGAGE RAMP EAST & SOUTH
S-003	STRUCTURAL GENERAL NOTES	S-334	REINFORCEMENT ELEVATION - 4TH STREET EGRESS STAIR
S-004	SPECIAL INSPECTION TABLES	S-335	REINFORCEMENT ELEVATION - CONCOURSE STAIRS
S-101	GENERAL PLAN AND ELEVATION	S-351	REINFORCEMENT PLAN - ENLARGED CONCOURSE
S-102	SUGGESTED SEQUENCE OF CONSTRUCTION	S-352	REINFORCEMENT PLAN - ENLARGED CONCOURSE
S-110	OVERALL CONCOURSE FOUNDATION PLAN	S-371	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-111	CONCOURSE FOUNDATION PLAN	S-372	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-112	CONCOURSE FOUNDATION PLAN	S-373	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-113	4TH STREET FOUNDATION PLAN	S-374	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-120	OVERALL CONCOURSE PLAN	S-375	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-121	ENLARGED CONCOURSE PLAN	S-376	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-122	ENLARGED CONCOURSE PLAN	S-377	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-123	4TH STREET EGRESS STAIR PLAN	S-378	REINFORCEMENT PLAN - ENLARGED PLATFORM
S-131	ENLARGED PLATFORM FOUNDATION PLAN	S-401	LONGITUDINAL SECTION - CONCOURSE
S-132	ENLARGED PLATFORM FOUNDATION PLAN	S-402	LONGITUDINAL SECTION - BAGGAGE RAMP
S-133	ENLARGED PLATFORM FOUNDATION PLAN	S-403	TRANSVERSE SECTIONS - CONCOURSE AND BAGGAGE RAMP
S-134	ENLARGED PLATFORM FOUNDATION PLAN	S-404	TRANSVERSE SECTIONS - TRADE STREET BRIDGE
S-135	ENLARGED PLATFORM FOUNDATION PLAN	S-405	TRANSVERSE SECTIONS - 4TH STREET BRIDGE
S-136	ENLARGED PLATFORM FOUNDATION PLAN	S-501	TYPICAL DETAILS
S-137	ENLARGED PLATFORM FOUNDATION PLAN	S-601	PLATFORM SLAB ELEVATION TABLE
S-141	ENLARGED PLATFORM PLAN	S-602	PLATFORM SLAB ELEVATION TABLE
S-142	ENLARGED PLATFORM PLAN	S-650	REINFORCEMENT SCHEDULE
S-143	ENLARGED PLATFORM PLAN	S-651	REINFORCEMENT SCHEDULE
S-144	ENLARGED PLATFORM PLAN	S-652	REINFORCEMENT SCHEDULE
S-145	ENLARGED PLATFORM PLAN	S-653	REINFORCEMENT SCHEDULE
S-146	ENLARGED PLATFORM PLAN	S-701	TRADE STREET STEEL FRAMING PLAN
S-147	ENLARGED PLATFORM PLAN	S-702	TRADE STREET TYPICAL SECTION ONLY AT ABUTMENTS & PLATFORM SLAB ELEVATIONS
S-301	PLATFORM SECTION - STA. 22+00	S-703	TRADE STREET GIRDER ELEVATION - SPAN 1 & 4
S-302	PLATFORM SECTION - STA. 20+96	S-704	TRADE STREET GIRDER ELEVATION - SPAN 2
S-303	PLATFORM SECTION - STA. 24+40	S-705	TRADE STREET GIRDER ELEVATION - SPAN 3
S-304	CONCOURSE SECTION - STA. 24+50	S-706	TRADE STREET TYPICAL STEEL DETAILS
S-305	CONCOURSE SECTION - STA. 24+75	S-707	TRADE STREET TYPICAL STEEL DETAILS
S-306	CONCOURSE SECTION - STA. 24+97	S-708	TRADE STREET BEARING DETAILS
S-307	CONCOURSE SECTION - STA. 25+15, STA. 25+50	S-709	TRADE STREET GIRDER CAMBER TABLE
S-308	CONCOURSE SECTION - STA. 25+35	S-710	TRADE STREET SLAB REINFORCEMENT PLAN
S-309	CONCOURSE SECTION - STA. 25+55	S-711	TRADE STREET SLAB SECTION
S-310	BAGGAGE RAMP SECTION - STA. 25+70	S-712	TRADE STREET SLAB REINFORCEMENT SCHEDULE
S-311	BAGGAGE RAMP SECTION - STA. 27+10	S-801	4TH STREET STEEL FRAMING PLAN
S-312	PLATFORM SECTION - STA. 27+45	S-802	4TH STREET TYPICAL SECTION ONLY AT ABUTMENTS & PLATFORM SLAB ELEVATIONS
S-313	PLATFORM SECTION - STA. 29+00	S-803	4TH STREET GIRDER ELEVATION - SPAN 1 & 3
S-314	4TH STREET EGRESS STAIR SECTION - STA. 29+35	S-804	4TH STREET GIRDER ELEVATION - SPAN 2
S-315	4TH STREET EGRESS STAIR SECTION - STA. 29+50	S-805	4TH STREET TYPICAL STEEL DETAILS
S-320	CONCRETE SECTIONS AND DETAILS	S-806	4TH STREET TYPICAL STEEL DETAILS
S-321	CONCRETE SECTIONS AND DETAILS	S-807	4TH STREET BEARING DETAILS
S-322	CONCRETE SECTIONS AND DETAILS	S-808	4TH STREET GIRDER CAMBER TABLE
S-323	CONCRETE SECTIONS AND DETAILS	S-809	4TH STREET SLAB REINFORCEMENT PLAN
S-330	REINFORCEMENT ELEVATION - CONCOURSE WEST & NORTH WALL	S-810	4TH STREET SLAB SECTION
S-331	REINFORCEMENT ELEVATION - CONCOURSE EAST & SOUTH WALL	S-811	4TH STREET SLAB REINFORCEMENT SCHEDULE

VICINITY MAP



LOCATION MAP



PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



DOCUMENT NOT CONSIDERED
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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

INDEX SHEET

HNTB HNTB NORTH CAROLINA, P.C.
 NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018

DWG. NO. 1

REVISIONS					
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2			4		

SHEET NO.
 S-001
 TOTAL SHEETS
 98

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GENERAL STRUCTURAL NOTES

THE FOLLOWING GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE STRUCTURAL DRAWINGS ONLY. THESE NOTES ARE PROVIDED FOR CONVENIENCE AND ARE SUPPLEMENTAL TO THE SPECIFICATIONS.

1.0 GENERAL

- 1.1 TYPICAL SECTIONS AND DETAILS - ALL SECTIONS, DETAILS AND NOTES ARE INTENDED TO BE TYPICAL UNLESS OTHERWISE DETAILED. WORKING AND SHOP DRAWINGS SUBMITTED BY THE GENERAL CONTRACTOR SHALL SHOW APPLICATION OF TYPICAL SECTIONS AND DETAILS FOR SIMILAR SITUATIONS.

2.0 STRUCTURAL DESIGN CRITERIA

- 2.1 PROPOSED STRUCTURES AND FOUNDATIONS ARE DESIGNED IN CONFORMANCE WITH THE FOLLOWING CODES AND STANDARDS:
 - A. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STRUCTURE UNIT DESIGN MANUAL, 2016 EDITION.
 - B. NORTH CAROLINA STATE BUILDING CODE, 2012 (2009 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS).
 - C. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", JANUARY 2018, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, HEREIN CALLED STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE.
 - D. AMTRAK ENGINEERING PRACTICES:
 - 1. STATIONS STANDARD DESIGN PRACTICES (SDP), EP4000, MARCH 6, 2014.
 - 2. MAINTENANCE AND PROTECTION OF RAILROAD TRAFFIC DURING CONTRACTOR OPERATIONS, EP 3014.
 - 3. STANDARD TRACK PLAN MINIMUM ROADWAY CLEARANCES, AM70050G.
 - 3. OTHER AMTRAK STANDARDS, AS APPLICABLE.
 - E. NORFOLK SOUTHERN RAILROAD (NSR):
 - 1. NSR PUBLIC PROJECTS MANUAL, 2015.
 - 2. NSR SPECIAL PROVISIONS, 2017.

THESE SECONDARY STANDARDS SHALL BE REFERENCED BY OR USED IN THE ABSENCE OF GUIDANCE FROM THE REFERENCES ABOVE:

- F. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA), MANUAL FOR RAILWAY ENGINEERING, 2017 EDITION.
- G. ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.
- H. AISC, STEEL CONSTRUCTION MANUAL, 13TH EDITION, INCLUDING THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS WITH COMMENTARY.
- I. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AISC 303-05.
- J. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-05.
- K. ASCE, DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION, ASCE 37-14.
- L. AWS, STRUCTURAL WELDING CODES - D1.1, 2008 EDITION, D1.4, 2005 EDITION, D1.5, 2008 EDITION.
- M. STEEL DECK INSTITUTE, DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS (PUBLICATION NO. 30).
- N. APPLICABLE STATUTES AND REGULATIONS OF FEDERAL, STATE AND LOCAL JURISDICTIONS.

3.0 GENERAL SERVICE LOADS

- 3.1 PLATFORM LIVE LOAD = 150 PSF
- 3.2 WALKWAY, RAMP, STAIR AND LANDING LIVE LOAD = 100 PSF OR 300 LBS CONCENTRATED LOAD
- 3.3 CONCOURSE FLOOR LIVE LOAD = 150 PSF
- 3.4 ROOF LIVE LOAD = 30 PSF
- 3.5 LIVE LOAD SURCHARGE: COOPER E80 LIVE LOAD
- 3.6 ROOF SNOW LOAD:
 - A. GROUND SNOW LOAD, P_g = 10 PSF
 - B. FLAT-ROOF SNOW LOAD, P_f = 10 PSF PLUS DRIFT
 - C. SNOW EXPOSURE FACTOR, C_e = 0.9
 - D. SNOW IMPORTANCE FACTOR = 1.1
 - E. THERMAL FACTOR, C_t = 1.2

- 3.7 WIND DESIGN DATA:
 - A. BASIC WIND SPEED = 90 MPH
 - B. WIND IMPORTANCE FACTOR, I = 1.15
 - C. EXPOSURE CATEGORY = B
 - D. OCCUPANCY CATEGORY = III
 - E. AMTRAK STANDARD DESIGN PRACTICE WIND LOAD:
 - 1. MAIN WIND FORCE RESISTING SYSTEM:
 - A. WALLS: MINIMUM 20 PSF FOR WINDWARD WALLS, 10 PSF FOR LEEWARD WALLS
 - B. ROOF: MINIMUM 30 PSF FOR CORNER AND OVERHANGS, 25 PSF FOR EAVE AREAS, 15 PSF FOR INTERIOR AREAS
 - 2. BUILDING COMPONENTS AND CLADDING SYSTEM:
 - A. WALLS: MINIMUM 30 PSF FOR INTERNAL ZONE, 35 PSF FOR EDGE ZONES, 40 PSF FOR CORNER ZONES
 - B. ROOF PANELS: MINIMUM 35 PSF FOR INTERNAL ZONE, 45 PSF FOR EDGE ZONES AND OVERHANGS, 60 PSF FOR CORNER ZONES

- 3.8 EARTHQUAKE DESIGN DATA:
 - A. SEISMIC IMPORTANCE FACTOR, I = 1.25
 - B. OCCUPANCY CATEGORY = III
 - C. SHORT TERM ACCELERATION COEFFICIENT, S_s = 0.239g
 - D. 1-SECOND ACCELERATION COEFFICIENT, S₁ = 0.103g
 - E. SITE CLASS = C
 - F. SPECTRAL RESPONSE COEFFICIENT AT SHORT PERIOD, S_{DS} = 0.191
 - G. SPECTRAL RESPONSE COEFFICIENT AT 1-SECOND PERIOD, S_{D1} = 0.116
 - H. SEISMIC DESIGN CATEGORY = B
 - I. BASIC SEISMIC FORCE RESISTING SYSTEM = ORDINARY REINFORCED CONCRETE MOMENT FRAMES
 - J. SEISMIC RESPONSE COEFFICIENT, C_s = 0.080
 - K. RESPONSE MODIFICATION FACTOR, R = 3.0
 - L. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

4.0 CONSTRUCTION OPERATIONS

- 4.1 CONTROL OF WORK: ALL WORK INVOLVED IN THE CONSTRUCTION OF THE RAILWAY STRUCTURE SHALL BE PERFORMED SATISFACTORY TO THE ENGINEER AND COMPLIANT WITH THE DESIGN STANDARDS OF NORFOLK SOUTHERN RAILWAY COMPANY. ALL METHODS OF HANDLING THE WORK AFFECTING THE SAFETY OF RAIL OPERATIONS MUST BE APPROVED BY THE RAILWAY COMPANY, AS A SUBMITTAL THROUGH THE ENGINEER, AT LEAST TWO WEEKS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. RAIL TRAFFIC SHALL, AT ALL TIMES, BE MAINTAINED AND PROTECTED. THE CONTRACTOR SHALL NOT AT ANY TIME DELAY OR INTERFERE WITH RAIL OPERATIONS.
- 4.2 ASSUME AN ABSOLUTE OBLIGATION TO PROTECT EXISTING STRUCTURES AND EQUIPMENT, NEW WORK, AMTRAK, NORFOLK SOUTHERN, OTHER RAILROAD OPERATING AGENCIES, AND THE GENERAL PUBLIC FROM DAMAGE, LOSS OR INJURY RESULTING FROM THE GENERAL CONTRACTOR'S OPERATIONS. IN THE EVENT OF SUCH DAMAGE OR LOSS, PROMPTLY REPLACE OR RESTORE THE WORK TO AN EQUIVALENT QUALITY TO THE SATISFACTION OF THE PROJECT MANAGER AND AT NO ADDITIONAL EXPENSE TO NCDOT.
- 4.3 REMOVE TO THE EXTENT INDICATED AND PROPERLY DISPOSE OF EXISTING STRUCTURES AND MATERIALS TO BE DEMOLISHED IN ACCORDANCE WITH THE SPECIFICATIONS. 4.1 ASSUME AN ABSOLUTE OBLIGATION TO PROTECT EXISTING STRUCTURES AND EQUIPMENT, NEW WORK, AMTRAK, NORFOLK SOUTHERN, OTHER RAILROAD OPERATING AGENCIES, AND THE GENERAL PUBLIC FROM DAMAGE, LOSS OR INJURY RESULTING FROM THE GENERAL CONTRACTOR'S OPERATIONS. IN THE EVENT OF SUCH DAMAGE OR LOSS, PROMPTLY REPLACE OR RESTORE THE WORK TO AN EQUIVALENT QUALITY TO THE SATISFACTION OF THE PROJECT MANAGER AND AT NO ADDITIONAL EXPENSE TO NCDOT.
- 4.4 REMOVE TO THE EXTENT INDICATED AND PROPERLY DISPOSE OF EXISTING STRUCTURES AND MATERIALS TO BE DEMOLISHED IN ACCORDANCE WITH THE SPECIFICATIONS. 4.3 NCDOT DOES NOT GUARANTEE THE ACCURACY OF THE LOCATIONS OF THE EXISTING ABOVE GROUND AND SUBSURFACE UTILITY STRUCTURES SHOWN ON THE DRAWINGS, NOR DOES NCDOT GUARANTEE THAT ALL ABOVE AND UNDERGROUND STRUCTURES ARE SHOWN.
- 4.5 EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION AND SHALL TAKE ALL PRECAUTIONS TO FULLY PROTECT THE UTILITIES AND SERVICE.
- 4.6 CONTRACTOR SHALL CONTACT THE NORTH CAROLINA UTILITIES PRIOR TO STARTING EXCAVATION.
- 4.7 THE CONTRACTOR SHALL SUBMIT TO NCDOT, FOR APPROVAL, A SITE SPECIFIC WORK PLAN (SSWP) IN ACCORDANCE WITH NORFOLK SOUTHERN REQUIREMENTS.
- 4.8 THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHORING AND SHIELDING AS REQUIRED DURING CONSTRUCTION, TO PROTECT THE RAILROAD AND EXISTING STRUCTURES TO REMAIN FROM DISPLACEMENT AND SETTLEMENT DUE TO EXCAVATION AND EARTH AUGERING OPERATIONS. THIS IS INCIDENTAL TO THE FOUNDATION EXCAVATION PAY ITEM.

- A. DESIGN OF TEMPORARY BRACING, SHORING AND SHIELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL REQUIRE APPROVAL OF THE NCDOT PROJECT MANAGER. DESIGN SHALL BE PERFORMED, SIGNED AND SEALED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NORTH CAROLINA IN ACCORDANCE WITH THE SPECIFICATIONS.
- B. TEMPORARY BRACING, SHORING AND SHIELDING SHALL BE REMOVED UPON COMPLETION OF WORK AS BACKFILL IS PLACED. STEEL SHEETING MAY BE LEFT IN PLACE IF APPROVED BY THE NCDOT PROJECT MANAGER. HOWEVER, ALL BRACING SHALL BE REMOVED AND THE SHEETING SHALL BE CUT OFF TO THE ELEVATIONS DIRECTED BY THE NCDOT PROJECT MANAGER.
- C. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES INCLUDING, BUT NOT LIMITED TO WIND AND UNBALANCED LOADING DUE TO CONSTRUCTION.
- 4.9 CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS ONLY IF PERMITTED BY NORFOLK SOUTHERN.
- 4.10 OUTAGES AND SITE ACCESS SHALL BE COORDINATED WITH NORFOLK SOUTHERN.
- 4.11 THE CONTRACTOR SHALL COORDINATE WITH NCDOT TO LOCATE, PROTECT, SUPPORT AND RESTORE BURIED UTILITY, SIGNAL AND COMMUNICATIONS CABLES.
- 4.12 THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND ASCERTAIN THE EXISTING SITE CONDITIONS, ACCESS TO THE SITE, STORAGE, AND CLEARANCES AVAILABLE FOR CONSTRUCTION.
- 4.13 ALL DISCARDED, DEMOLISHED OR EXCAVATED MATERIAL NOT OTHERWISE DESIGNATED FOR SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH NCDOT PERMISSION AND SHALL BE PROPERLY DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS. EXISTING MATERIAL DESIGNATED FOR SALVAGE SHALL REMAIN THE PROPERTY OF NCDOT AND SHALL BE CAREFULLY REMOVED AND PLACED IN STORAGE AREAS DESIGNATED BY NCDOT.
- 4.14 PROVIDE DOWELS, ANCHOR BOLTS, EMBEDMENTS AND SIMILAR ITEMS AS REQUIRED AND/OR LOCATED ON THE DRAWINGS.
- 4.15 THE CONTRACTOR SHALL MEET AMTRAK'S AND/OR NORFOLK SOUTHERN'S REQUIREMENTS FOR WORK ON RAILROAD PROPERTY.
- 4.16 NO BACKFILLING OF EXTERIOR WALLS SHALL BE PERMITTED UNTIL THE TOP SLAB HAS BEEN PLACED AND CURED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY BRACING WALLS UNTIL THE TOP SLAB IS PLACED.
- 4.17 FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- 4.18 FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISION.
- 4.19 FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- 4.20 FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- 4.21 FOUNDATION WATERPROOFING SHALL BE INSTALLED ALONG THE VERTICALS OF THE UNDERGROUND STRUCTURES AND UNDER THE BASE SLABS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

5.0 FOUNDATIONS

- 5.1 PRIOR TO CONSTRUCTION OF NEW EQUIPMENT OR FOUNDATION STRUCTURE, COMPACT THE SUBGRADE TO A DENSITY EQUIVALENT TO NOT LESS THAN THE SPECIFIED PERCENTAGE OF MAXIMUM DENSITY PER ASTM D1557 AS DESCRIBED IN THE SPECIFICATIONS.
- 5.2 MINIMUM ALLOWABLE BEARING CAPACITY:
 - A. SLABS-ON-GRADE SHALL BE SUPPORTED ON PROPERLY COMPACTED OR SUBBASE MATERIAL WHICH SHALL DEVELOP A MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 PSF.
 - B. SPREAD OR STRIP FOOTINGS SHALL BEAR ON PROPERLY PREPARED SUBGRADE OF UNDISTURBED RESIDUAL SOILS OR COMPACTED STRUCTURAL BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 PSF.
 - C. COMPACTION AND ALLOWABLE BEARING CAPACITY SHALL BE FIELD VERIFIED BY TESTING LABORATORY. ALL LABORATORY WORK SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN NORTH CAROLINA WHO IS QUALIFIED IN SOILS ENGINEERING. ALL TESTING AND CERTIFICATION SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- 5.3 EXCAVATIONS SHALL BE KEPT DRY UNTIL SUBSURFACE CONSTRUCTION IS COMPLETE. IF GROUNDWATER OR OTHER LIQUIDS ARE ENCOUNTERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL PROVIDE SUITABLE MEANS OF DEWATERING THE EXCAVATIONS.
- 5.4 PERIMETER FOUNDATION UNDERDRAINS AND ALL INCIDENTAL ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR FOUNDATION EXCAVATION.
- 5.5 SEPARATION GEOTEXTILE SHALL BE TYPE 1 GEOTEXTILE IN ACCORDANCE WITH SECTION 1056 OF THE STANDARD SPECIFICATIONS.
- 5.6 REFER TO FOUNDATION NOTES ON SHEET S-110 & S-113.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STRUCTURAL GENERAL NOTES



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HNTB NORTH CAROLINA, P.C. <small>NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</small>	REVISIONS					SHEET NO. S-002 TOTAL SHEETS 98
	NO.	BY	DATE	NO.	BY	
1	CP	5/2/18	3			
2			4			

TOTAL BILL OF MATERIALS													
	REINFORCED CONCRETE DECK SLAB	CLASS AA CONCRETE	REINFORCING STEEL	APPROX. 160,000 LBS. - STRUCTURAL STEEL	PAINTING OF STRUCTURAL STEEL	FOUNDATION EXCAVATION	FOUNDATION WATERPROOFING	HP 14x73 STEEL PILES		PILE DRIVING EQUIPMENT SETUP FOR HP14x73 STE...	PDA TESTING	ELASTOMERIC BEARINGS	LIQUID FLOOR TREATMENTS
	SQ. FEET	CU. YARDS	LBS	LUMP SUM	LUMP SUM	CU. YARDS	SQ. YARDS	NO.	LF	EACH	EACH	LUMP SUM	SQ. FEET
PLATFORM, CONCOURSE, 4TH ST. EGRESS STAIR	-	4,400	1,076,236	LUMP SUM	-	1,600	2,400	235	10,620	235	1	-	28,700
TRADE ST. PLATFORM BRIDGE	5,700	-	-	LUMP SUM	LUMP SUM	-	-	-	-	-	-	LUMP SUM	5,700
4TH ST. PLATFORM BRIDGE	4,000	-	-	LUMP SUM	LUMP SUM	-	-	-	-	-	-	LUMP SUM	4,000
TOTAL	9,700	4,400	1,076,236	LUMP SUM	LUMP SUM	1,600	2,400	235	10,620	235	1	LUMP SUM	38,400

TOTAL BILL OF MATERIALS NOTES:

- 1. THE PLATFORM SLABS FOR THE TRADE STREET AND 4TH STREET PLATFORM BRIDGES ARE INCLUDED IN THE REINFORCED CONCRETE DECK SLAB PAY ITEM.
- 2. THE PLATFORM SLABS FOR THE PLATFORM, CONCOURSE, AND 4TH EGRESS STAIR STRUCTURES ARE INCLUDED IN THE CLASS AA CONCRETE PAY ITEM.
- 3. ALL PLUMBING (TRENCH DRAINS, PIPING, SUPPORTS, ETC.) ASSOCIATED WITH THE PLATFORM, CONCOURSE, AND 4TH STREET EGRESS STAIRS ARE INCLUDED IN THE PLATFORM STRUCTURE DRAINAGE SYSTEM PAY ITEM. SEE PLUMBING PLANS.

6.0 MATERIALS OF CONSTRUCTION – STRUCTURAL

- 6.1 FOR DETAILED REQUIREMENTS AND SPECIFIED PRODUCTS SEE SPECIFICATIONS.
- 6.2 FOR REQUIRED FINISH AND PROTECTIVE COATING OF MATERIALS SEE SPECIFICATIONS.
- 6.3 CAST-IN-PLACE CONCRETE:
 - A. TYPE OF DESIGN – STRENGTH DESIGN WITH LOAD FACTORS AND STRENGTH REDUCTION FACTORS CONFORMING TO ACI 318.
 - B. NORMAL WEIGHT STRUCTURAL CONCRETE WITH MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28-DAYS AS FOLLOWS:
 - I. ALL CONCRETE SHALL BE 4,500 PSI CLASS AA CONCRETE WITH NO. 57 OR 67 COARSE AGGREGATE AND SHALL BE AIR ENTRAINED. MINIMUM CEMENT CONTENT PER CUBIC YARD OF CONCRETE SHALL BE 6.5 BAGS. NO SUBSTITUTION OF FLY ASH, BLAST FURNACE SLAB OR OTHER MATERIAL WILL BE PERMITTED IN MEETING THIS MINIMUM CEMENT REQUIREMENT. THE USE OF GROUND GRANULATED BLAST FURNACE SLAB IS NOT PERMITTED.
 - C. CONCRETE FINISH:
 - I. PLATFORM - BROOM FINISH
 - II. WALLS - REMOVE FORM TIES AND PATCH
 - III. FLOORS - BROOM FINISH
 - D. CHAMFER EXPOSED CONCRETE EDGES 3/4" X 3/4".
 - E. CONTROL JOINTS IN SLABS SHALL BE PLACED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, JOINTS SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 250 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSION BY MORE THAN 20%. JOINTS SHALL BE HAND TOOLED, CAST IN, OR SAW CUT USING A SOFT SAW.
 - F. PLACE SLAB CONSTRUCTION JOINTS AT LOCATIONS SHOWN ON THE DRAWINGS. INDIVIDUAL SLAB POURS SHALL BE BOUND BY DESIGNATED CONSTRUCTION JOINTS AND SHALL NOT EXCEED 5000 SQUARE FEET.
 - G. WALL CONTROL JOINTS ARE NOT SHOWN ON PLAN. CONTRACTOR SHALL SUBMIT PLAN WITH WALL CONTROL JOINT LOCATIONS TO THE ENGINEER/ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION OF CONCRETE WALLS. MAXIMUM SPACING OF WALL CONTROL JOINTS SHALL BE 20'-0" O.C. MAXIMUM WALL PLACEMENT SHALL BE 60'-0" O.C.
 - H. PROVIDE WATER STOPS AT ALL CONSTRUCTION JOINTS BELOW GRADE.
 - I. FOR CONCRETE MATERIAL AND INSTALLATION REQUIREMENTS SEE SPECIFICATIONS.
 - J. FOR WATERSTOPS, SEE SPECIAL PROVISION.
- 6.4 CONCRETE REINFORCEMENT:
 - A. REINFORCING BARS - ASTM A615, GRADE 60, EPOXY COATED IN ACCORDANCE WITH ASTM A775 OR ASTM A884.
 - B. WELDED WIRE FABRIC - ASTM A1064, EPOXY COATED IN ACCORDANCE WITH ASTM A775 OR ASTM A884.
 - C. DETAIL AND FABRICATE REINFORCEMENT IN ACCORDANCE WITH ACI 315 DETAILING MANUAL.
 - D. REINFORCEMENT REQUIRED TO PASS THROUGH THE CONSTRUCTION JOINT SHALL BE CONTINUOUS (NOT LAP SPLICED) THROUGH THE JOINT.
 - E. REINFORCING BARS AT SPLICES SHALL BE LAPPED AS SHOWN OTHERWISE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - F. ALL REINFORCEMENT, INCLUDING WELDED WIRE FABRIC, SHALL BE ADEQUATELY SECURED IN POSITION WITH CONCRETE COVER PRIOR TO CONCRETE PLACEMENT.
 - G. MINIMUM CONCRETE COVER FOR REINFORCEMENT UNLESS OTHERWISE SHOWN (INCHES):
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3
 - CONCRETE EXPOSED TO EARTH, FLUIDS, WEATHER OR DEICING CHEMICALS..... 2
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND..... 1-1/2
- 6.5 STRUCTURAL STEEL:
 - A. STRUCTURAL STEEL AND ALL ATTACHED/ WELDED PLATES: AASHTO M270 GRADE 50 (ASTM A709, GRADE 50).
 - B. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B.
 - C. STEEL PIPE: ASTM A500, GRADE B, EXTRA STRONG, HOT-DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
 - D. SHOP CONNECTIONS MAY BE BOLTED OR WELDED; FIELD CONNECTIONS SHALL BE BOLTED UNLESS DETAILED OR NOTED OTHERWISE ON THE DRAWINGS.
 - E. FOR HOLLOW STRUCTURAL SECTIONS, PROVIDE SEAL WELDED 3/8" CAP PLATES, UNLESS NOTED OTHERWISE.
 - F. PROVIDE WEEP/DRAIN HOLES IN ALL HOLLOW STRUCTURAL SECTIONS.
 - G. FOR PAINTING STRUCTURAL STEEL, SEE SPECIAL PROVISION SPECIFICATIONS.
 - H. ALL STEEL CUTS, COPEs, AND BLOCKS SHALL BE THERMALLY CUT EDGES.
- 6.6 STRUCTURAL FASTENERS:
 - A. BOLTS: MINIMUM 7/8" DIA., UNLESS NOTED OTHERWISE. ASTM F3125, GRADE A325X-SC, CLASS "B", HOT-DIPPED GALVANIZED. MARR THE THREADS AFTER INSTALLATION.
 - B. THREADED ANCHOR RODS: ASTM F1554, GRADE 105, NON-HEADED, HOT-DIPPED GALVANIZED. ALL ANCHORS EMBEDDED IN CONCRETE SHALL BE FURNISHED WITH DOUBLE NUTS AND INSTALLED WITH A TEMPLATE TO MATCH ANCHOR BOLT LAYOUT. PROVIDE WASHER AND NUT AT LOWER END OF EMBEDDED ANCHOR RODS.
 - C. CHEMICAL ADHESIVE ANCHORS: AISI 316 STAINLESS STEEL BOLT ASSEMBLY WITH HILTI HIT-HY 200 SAFE SET SYSTEM, OR APPROVED EQUAL.
 - D. PROVIDE PIPE SLEEVES ON THE INTERIOR PORTION OF ALL THROUGH-BOLT CONNECTIONS. THE INSIDE DIAMETER OF ALL PIPE SLEEVES SHALL BE NO MORE THAN 1/4" LARGER THAN THE ASSOCIATE THROUGH-BOLT.
 - E. HEADED SHEAR STUDS (WELDED STUDS): A108, UNCOATED.
- 6.7 WELDING ELECTRODES:
 - A. CARBON STEEL: E70XX (AWS 5.1 OR 5.5) USE LOW HYDROGEN ELECTRODES FOR SHOP WELDING.
- 6.8 WELDED HEADED STUDS: IN ACCORDANCE WITH ANSI/AASHTO/AWS D1.5.
- 6.9 GROUT: NON-SHRINK CEMENT BASED NON-METALLIC GROUT MEETING ASTM C-1107 (GRADE C).

LIST OF ABBREVIATIONS

ADD'L	ADDITIONAL
AHD	AHEAD
B/	BOTTOM OF
BK	BACK
BM	BEAM
BL	BASELINE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BTWN	BETWEEN
C/CTR	CENTER
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
CONSTR	CONSTRUCTION
CONSTR JT.	CONSTRUCTION JOINT
DEF	DEFLECTION
EF	EACH FACE
EL	ELEVATION
EQ	EQUAL
FF	FRONT FACE
FIX	FIXED
FTG	FOOTING
FS	FAR SIDE
GALV	GALVANIZED
HP	HIGH POINT
HORZ	HORIZONTAL
LP	LOW POINT
LT	LEFT
NB	NORTHBOUND
NS	NEAR SIDE
OPP	OPPOSITE
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION OF TURNOUT
PGL	PROFILE GRADE LINE
PROP	PROPOSED
R	RADIUS
RT	RIGHT
SB	SOUTHBOUND
SPA	SPACE/SPACED
ST	SPIRAL TO TANGENT
STA	STATION
STR	STRAIGHT
T/BALLAST	TOP OF BALLAST
T/GRADE	TOP OF GRADE
T/S	TOP OF STEEL
T&B	TOP AND BOTTOM
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TS	TANGENT TO SPIRAL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WP	WORK POINT

LEGEND

STA. XX+XX.XX	DENOTES STATION ALONG PLATFORM CONSTRUCTION BASELINE
XX.XX RT./LT.	DENOTES RIGHT OR LEFT OFFSET FROM PLATFORM CONSTRUCTION BASELINE
EL. XXX.XX	DENOTES ELEVATION

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2


<p>4/5/2018</p>  <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	<p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH</p> <p>STRUCTURAL GENERAL NOTES</p>																												
<p>HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="6">REVISIONS</th> <th>SHEET NO.</th> </tr> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>S-003</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td>TOTAL SHEETS</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>98</td> </tr> </table>	REVISIONS						SHEET NO.	NO.	BY	DATE	NO.	BY	DATE	S-003	1			3			TOTAL SHEETS	2			4			98
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DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>	DWG. NO. 3																												

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X		—
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. SNUG-TIGHT JOINTS.	—	X	AISC 360 SECTION M2.5	1704.3.3
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	—	X		
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	—		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	—	X		
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	AISC 360, SECTION M5.5	
C. MANUFACTURER'S CERTIFIED TEST REPORTS.	—	X	APPLICABLE ASTM MATERIAL STANDARDS	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	—
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X		—
5. INSPECTION OF WELDING:				
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	X	—	AWS D1.1	1704.3.1
2) MULTIPASS FILLET WELDS.	X	—		
3) SINGLE-PASS FILLET WELDS >5/16".	X	—		
4) PLUG AND SLOT WELDS.	X	—		
5) SINGLE-PASS FILLET WELDS =5/16".	—	X		
6) FLOOR AND ROOF DECK WELDS	—	X	AWS D1.3	
B. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	—	X	AWS D1.4 ACI 318: SECTION 3.5.2	—
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	—		
3) SHEAR REINFORCEMENT.	X	—		
4) OTHER REINFORCING STEEL.	—	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
A. DETAILS SUCH AS BRACING AND STIFFENING.	—	X	—	1704.3.2
B. MEMBER LOCATIONS.	—	X		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—	X		

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	—	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.	—	—	AWS D1.4 ACI 318:3.5.2	—
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	—	ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	—	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH.4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 5.11-5.13	1913.9
9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	—	ACI 318: 18.20 ACI 318: 18.18.4	—
10. ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: CH.16	—
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 6.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 6.1.1	—

TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

TABLE 1704.8
REQUIRED VERIFICATION AND INSPECTION OF DRIVEN DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY ELEMENT MATERIALS, SIZES, AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	—
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	—
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	—
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	—
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.3.	—	—
6. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	—	—
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	—	—


NOTES:

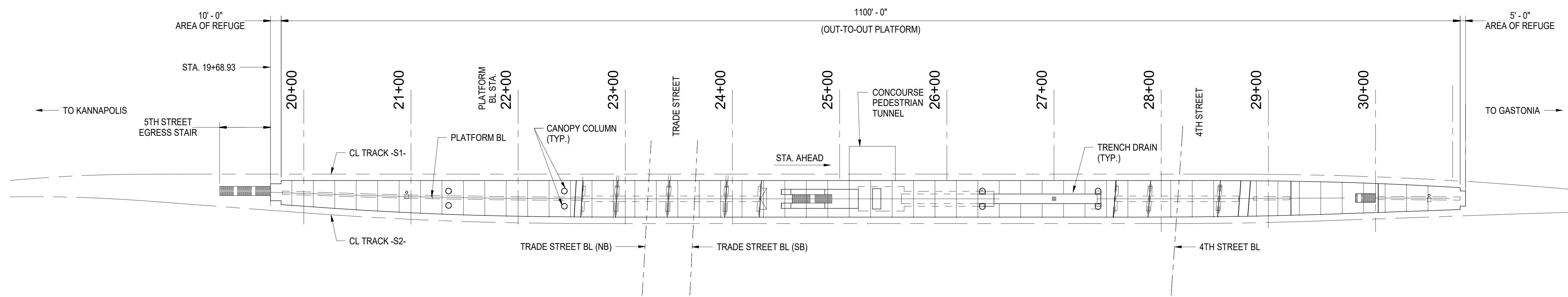
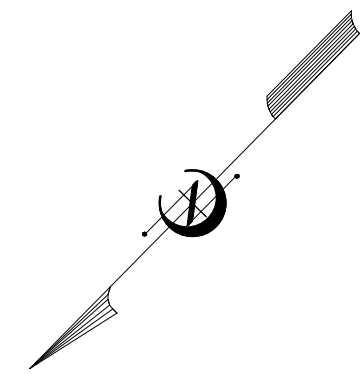
- SPECIAL INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED FIRMS OR PERSONNEL AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS, AND THE IBC BUILDING CODE CHAPTER 17, THE SPECIAL INSPECTORS SHALL MAINTAIN RECORDS OF ALL INSPECTIONS PERTAINING TO THE PORTIONS OF WORK THEY ARE TO INSPECT. PROVIDE COPIES OF REPORTS TO THE NCDOT PM PERIODICALLY AS REQUIRED FOR ADEQUATE COMMUNICATION AS WORK PROGRESSES.
- THE SPECIAL INSPECTOR SHALL MAINTAIN A CURRENT "ERROR LOG" WHICH SHALL TRACK ALL WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, SHALL TRACK WHEN WORK ITEMS NOT IN COMPLIANCE HAVE BEEN CORRECTED AND THE ACTIONS TAKEN TO MAKE CORRECTIONS AND TRACK ITEMS THAT HAVE BEEN ACCEPTED, IN WRITING, AS CONSTRUCTED BY THE ENGINEER OF RECORD.

TABLE 1704.9
REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

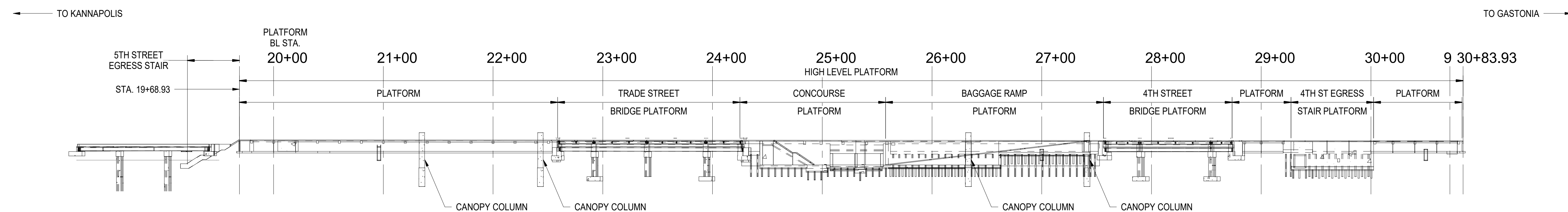
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	—
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	—
6. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	—	—

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

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1 GENERAL PLAN
SCALE: 1" = 50'-0"



2 GENERAL ELEVATION
SCALE: 1" = 50'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

- NOTES:**
- FOR TRACK GEOMETRY, SEE P-5705BA GRADING PLANS.
 - THE PLATFORM, PLATFORM GIRDERS OVER TRADE ST AND 4TH STREET BRIDGE, CONCOURSE, BAGGAGE RAMP, AND 4TH STREET EGRESS STAIR STRUCTURE ARE LOCATED AND DIMENSIONED TO THE PLATFORM BASELINE. THE PLATFORM BASELINE START IS DETAILED ON DRAWING S-131, AND THE PLATFORM BASELINE END IS DETAILED ON DRAWING S-137.
 - FOR 5TH STREET RAIL BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
 - FOR TRADE STREET RAIL BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
 - FOR 4TH STREET RAIL BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
 - FOR CONCOURSE PEDESTRIAN TUNNEL, SEE P-5705BB STRUCTURE PLANS.
 - FOR 4TH STREET PEDESTRIAN TUNNEL, SEE P-5705BB STRUCTURE PLANS.



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RALEIGH

**GENERAL PLAN AND
ELEVATION**

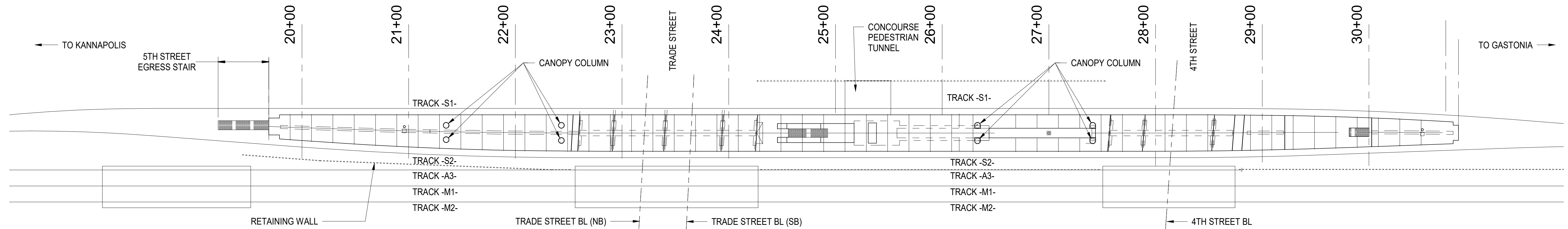
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2		3/27/2018	4			

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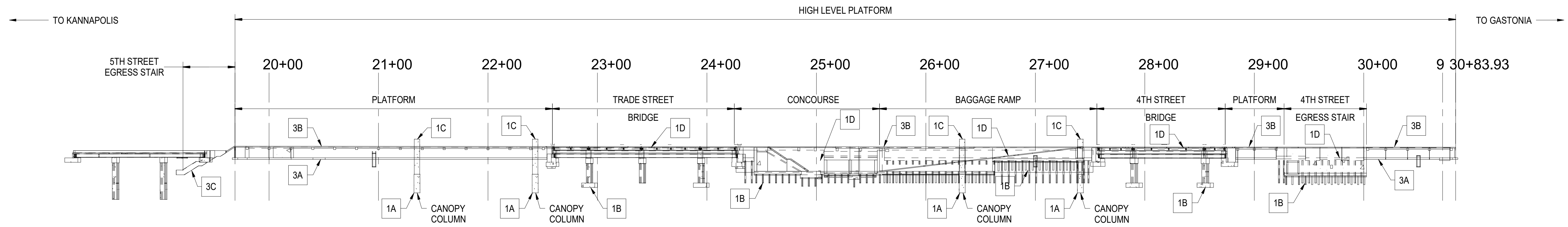
DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018

DWG. NO. 5

SHEET NO. S-101



1 GENERAL PLATFORM PLAN
S-102 SCALE: 1" = 50'-0"



2 GENERAL PLATFORM ELEVATION
S-102 SCALE: 1" = 50'-0"

SUGGESTED SEQUENCE OF CONSTRUCTION NOTES:

- PHASE 1:** FOR DESCRIPTION OF PHASE 1 WORK, SEE P-5705BA SHEET CP-02.
- PHASE 2:** FOR DESCRIPTION OF PHASE 2 WORK, SEE P-5705BA SHEET CP-02 AND BELOW.
- INSTALL TEMPORARY SHORING. CONSTRUCT ALL BRIDGES, TUNNELS AND CONCOURSE.
 - CONSTRUCT CANOPY DRILLED SHAFTS.
 - CONSTRUCT FOUNDATIONS FOR THE CONCOURSE, PEDESTRIAN TUNNELS, BAGGAGE RAMP, 4TH STREET EGRESS STAIR, RETAINING WALLS, AND BRIDGE INTERIOR BENTS.
 - CONSTRUCT CANOPY COLUMNS.
 - CONSTRUCT CONCOURSE, PEDESTRIAN TUNNELS, BAGGAGE RAMP, 4TH STREET EGRESS STAIRS, AND BRIDGE SUPERSTRUCTURES.
 - CONSTRUCT ROADBED, ACCESS ROADS AND RETAINING WALLS FOR -S1-, -S2-, -A1-, -A6-, AND -Y5- (SEE P-5705BA SHEET CP-02).
 - CONSTRUCT PLATFORM.
 - CONSTRUCT PLATFORM FOUNDATIONS.
 - CONSTRUCT PLATFORM SLABS.
 - CONSTRUCT 5TH STREET EGRESS STAIRS WITH BRIDGE ABUTMENT.

PHASE 3: FOR DESCRIPTION OF PHASE 3 WORK, SEE P-5705BA SHEET CP-03.

NOTES:

- THIS DRAWING IS PROVIDED TO THE NCDOT CONTRACTOR, FOR INFORMATION ONLY.
- FOR TRACK GEOMETRY, SEE P-5705BA TRACK PLANS.
- FOR 5TH STREET BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
- FOR TRADE STREET BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
- FOR 4TH STREET BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
- FOR CONCOURSE PEDESTRIAN TUNNEL AND 4TH STREET PEDESTRIAN TUNNEL, SEE P-5705BB STRUCTURE PLANS.
- FOR CANOPY COLUMN AND FOUNDATION, SEE P-5705BB CANOPY PLANS.
- FOR RETAINING WALLS, SEE P-5705BA STRUCTURE PLANS.
- FOR CONSTRUCTION PHASING PLANS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



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RALEIGH

SUGGESTED SEQUENCE OF CONSTRUCTION

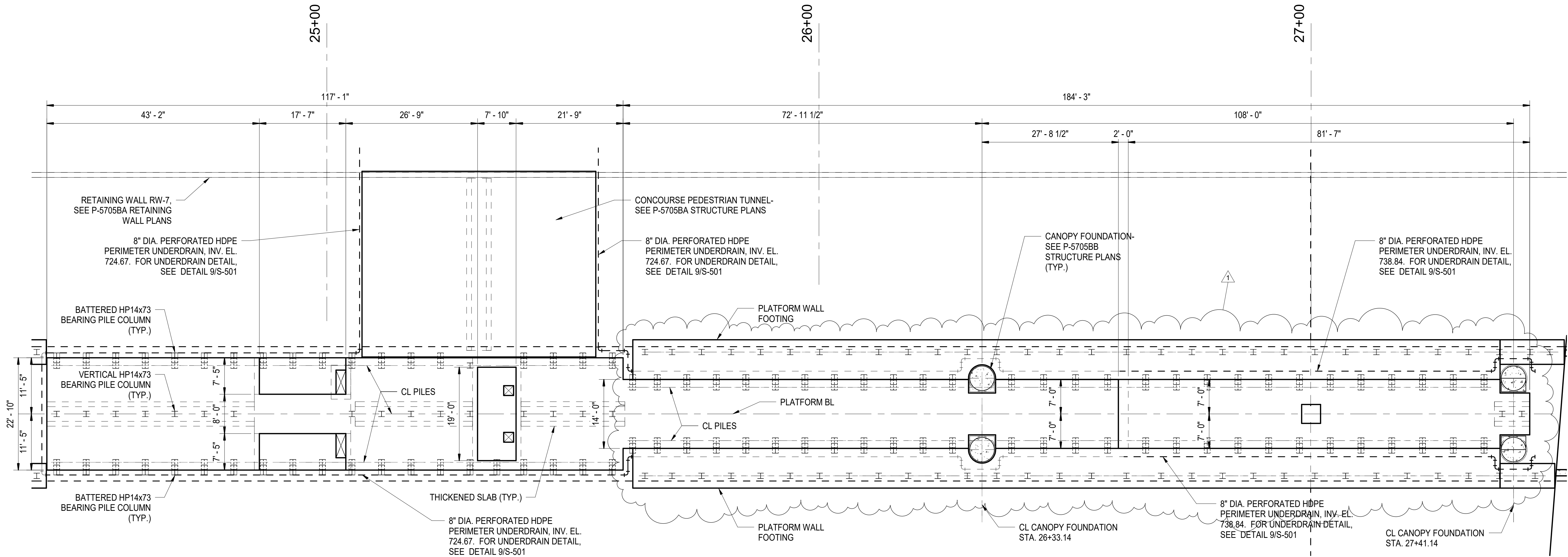
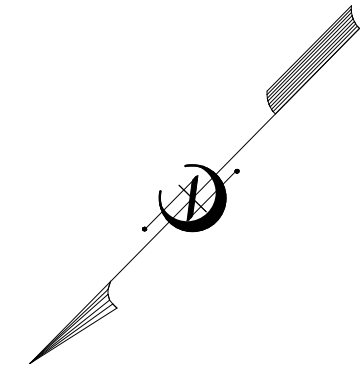
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CHECKED BY C. PARK DATE 3/27/2018

DWG. NO. 6

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
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SHEET NO. S-102
TOTAL SHEETS 98



OVERALL PILE LAYOUT FOUNDATION PLAN

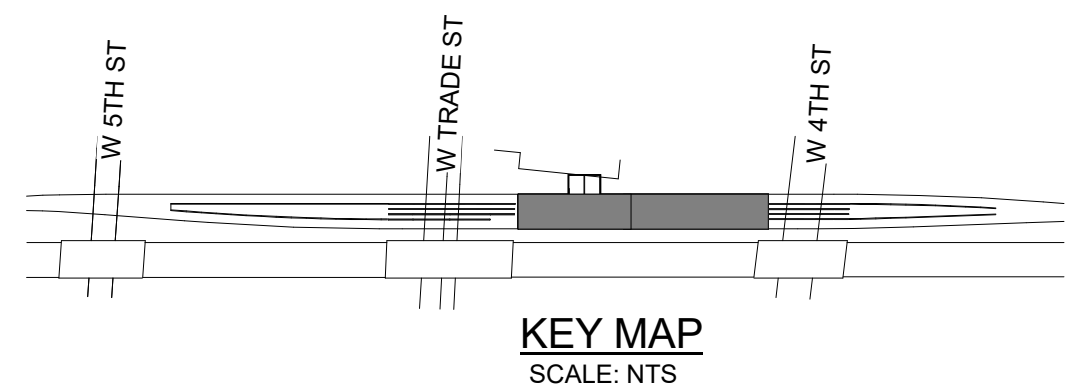
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S-110 SCALE: 3/32" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

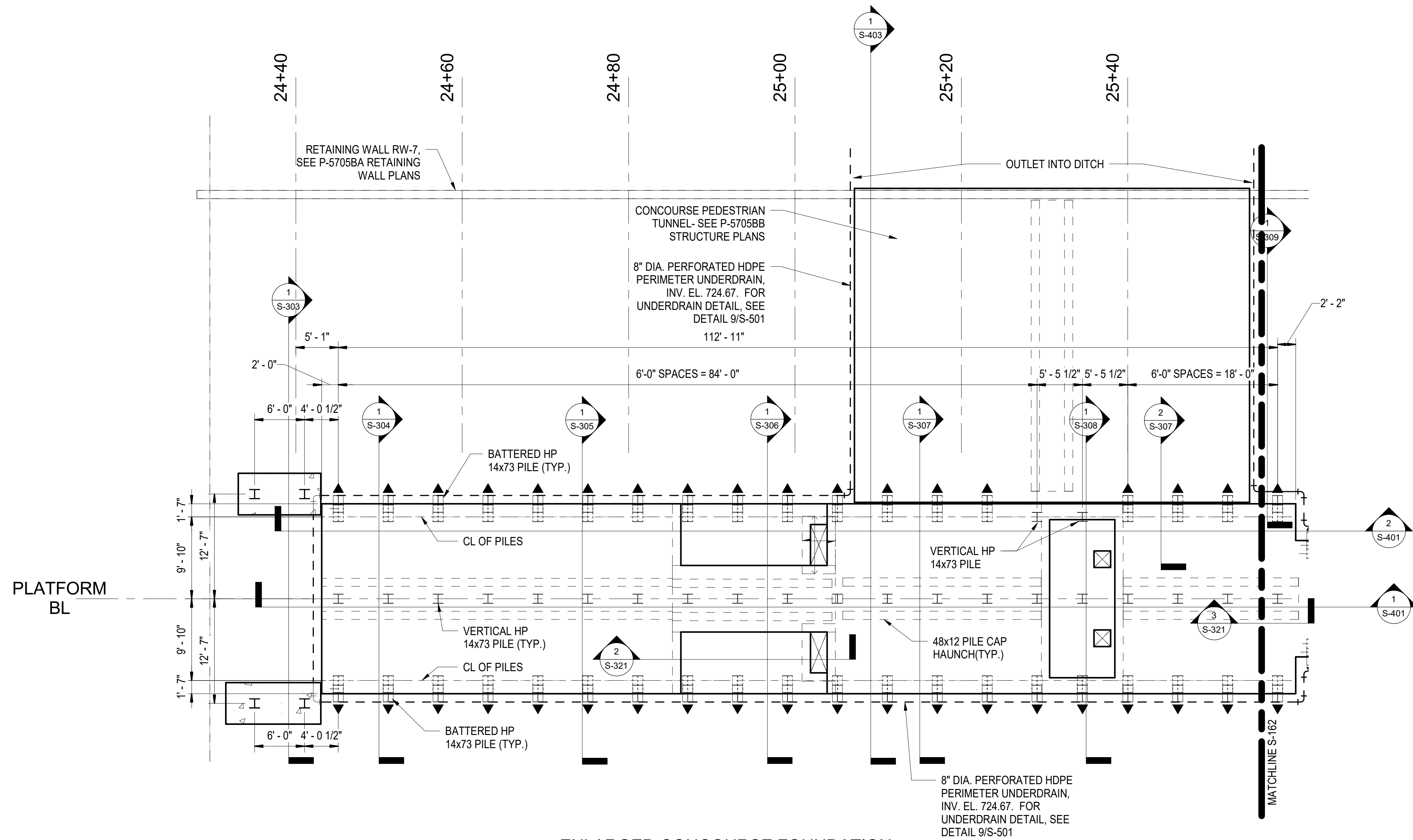
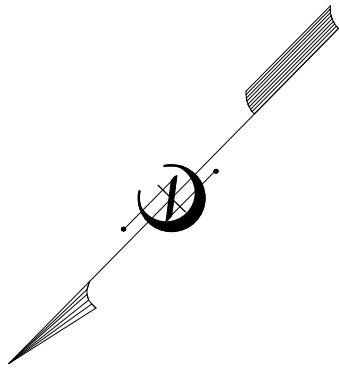
FOUNDATION NOTES:

- FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS.
- PILES AT CONCOURSE, BAGGAGE RAMP, AND 4TH STREET EGRESS STAIR STRUCTURE ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 100 TONS PER PILE.
- DRIVE PILES TO A REQUIRED BEARING CAPACITY OF 250 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAG.
- TEST THE FIRST PRODUCTION WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE GEOTECHNICAL SPECIAL PROVISION.
- PILE BATTERED IN DIRECTION SHOWN AT 4:12 BATTER.



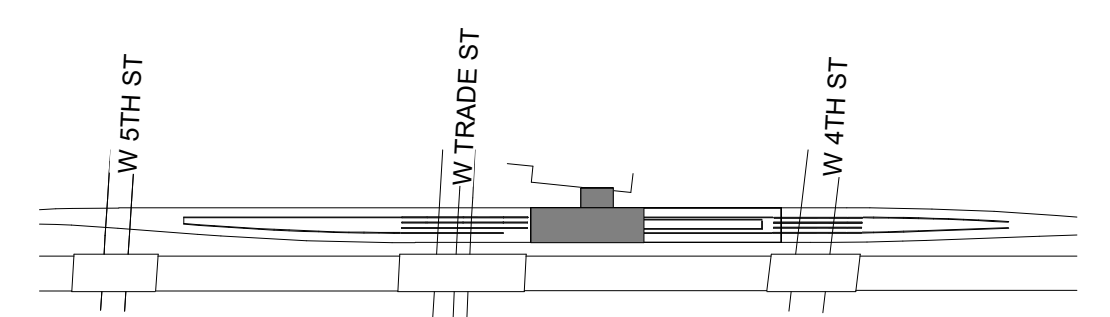
		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH OVERALL CONCOURSE FOUNDATION PLAN		SHEET NO. S-110 TOTAL SHEETS 98																		
					REVISIONS																	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609	DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK	DATE: 3/27/2018 DATE: 3/27/2018	DWG. NO. 7	<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CP</td> <td>5/10/18</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	BY	DATE	NO.	BY	DATE	1	CP	5/10/18	3			2			4		
NO.	BY	DATE	NO.	BY	DATE																	
1	CP	5/10/18	3																			
2			4																			





ENLARGED CONCOURSE FOUNDATION PLAN

1
S-111 SCALE: 1/8" = 1'-0"



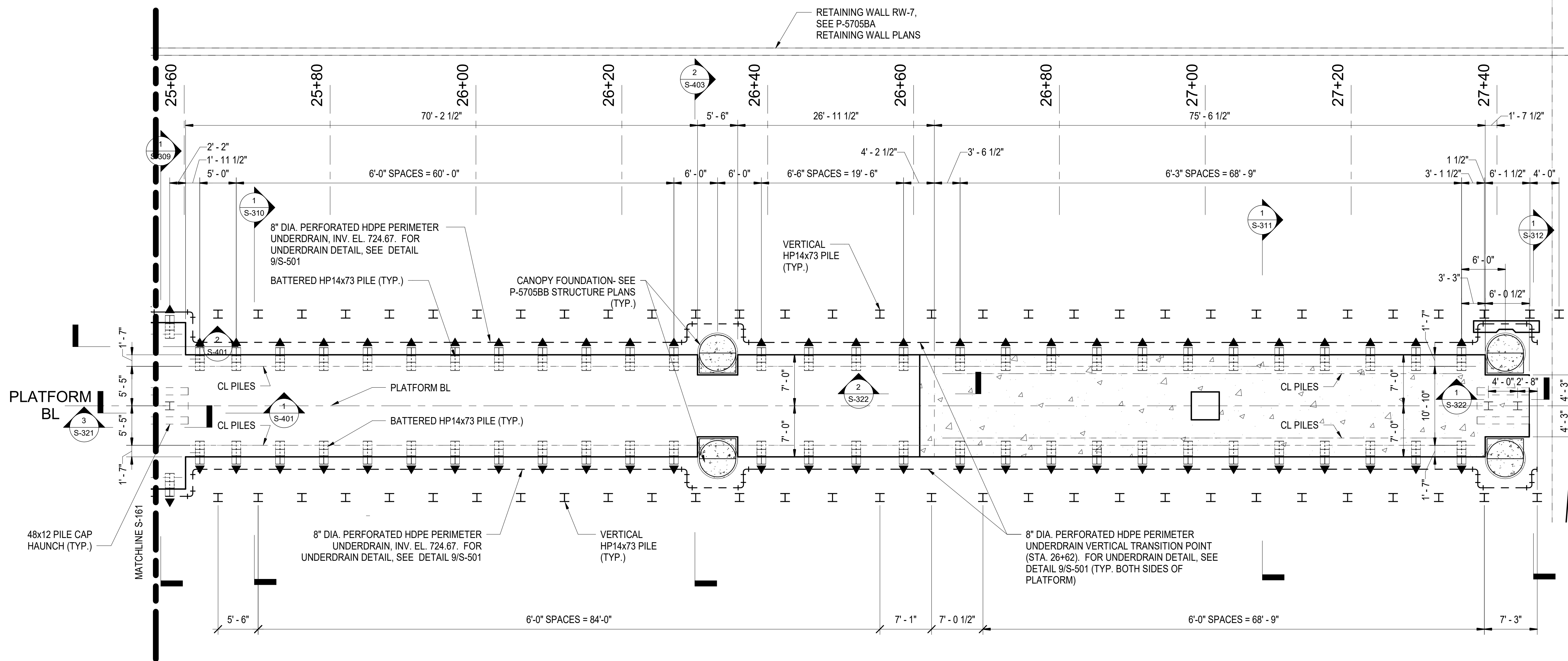
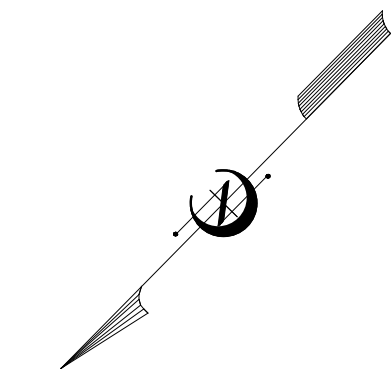
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

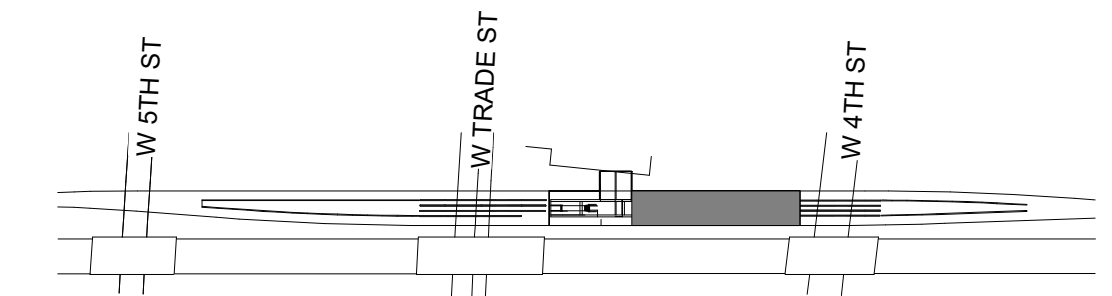
SHEET 1 OF 2

<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH CONCOURSE FOUNDATION PLAN		SHEET NO. S-111																			
					REVISIONS																		
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609	DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK	DATE: 3/27/2018 DATE: 3/27/2018	DWG. NO. 8	<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	BY	DATE	NO.	BY	DATE	1			3			2			4			TOTAL SHEETS 98
NO.	BY	DATE	NO.	BY	DATE																		
1			3																				
2			4																				





1
S-112 ENLARGED BAGGAGE RAMP FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



KEY MAP
SCALE: NTS

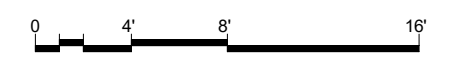
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

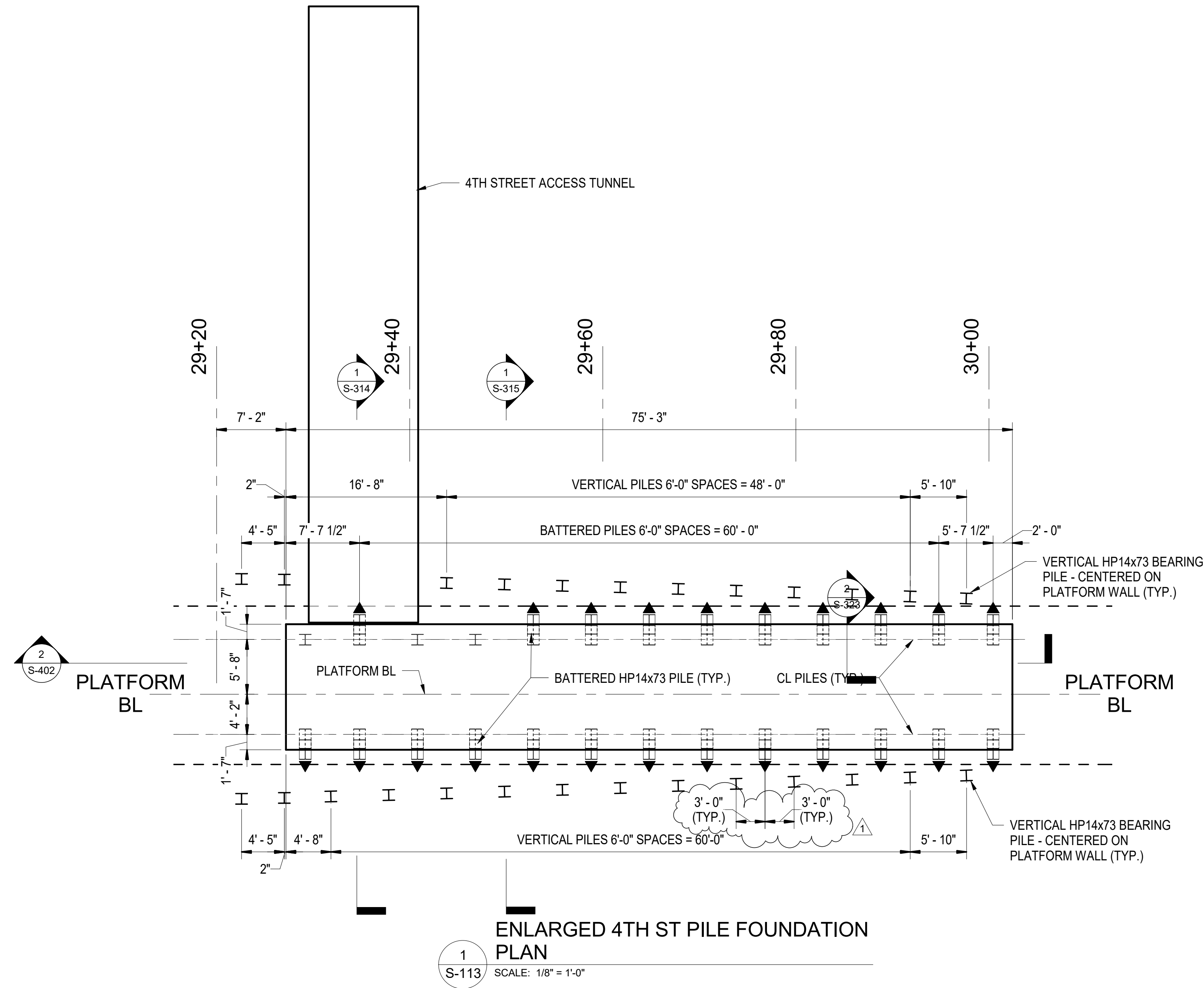
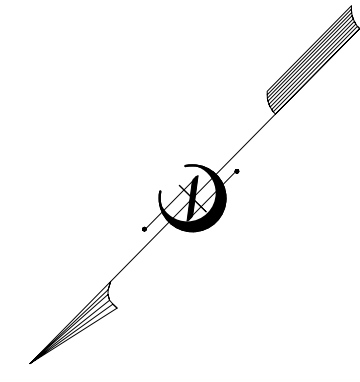
PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2

		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH CONCOURSE FOUNDATION PLAN		SHEET NO. S-112	
					REVISIONS
DRAWN BY: Author CHECKED BY: Checker	DATE: 3/27/2018 DATE: 3/27/2018	NO. 1 NO. 2	BY: [Blank] BY: [Blank]	DATE: [Blank] DATE: [Blank]	TOTAL SHEETS 98

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 DWG. NO. 9





ENLARGED 4TH ST PILE FOUNDATION PLAN

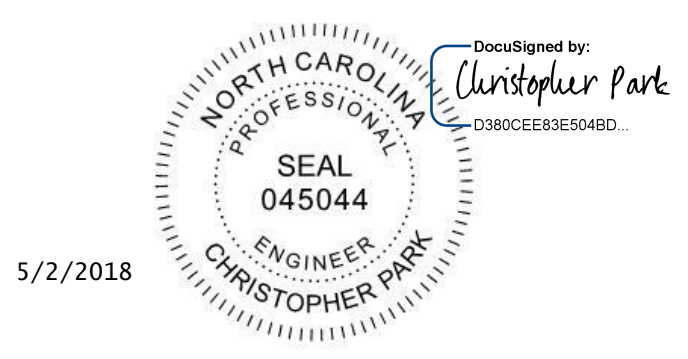
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S-113 SCALE: 1/8" = 1'-0"

FOUNDATION NOTES:

1. FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS.
2. PILES AT CONCOURSE, BAGGAGE RAMP, AND 4TH STREET EGRESS STAIR STRUCTURE ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 100 TONS PER PILE.
3. DRIVE PILES TO A REQUIRED BEARING CAPACITY OF 250 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAG.
4. TEST THE FIRST PRODUCTION WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE GEOTECHNICAL SPECIAL PROVISION.
5. PILE BATTERED IN DIRECTION SHOWN AT 4:12 BATTER.

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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



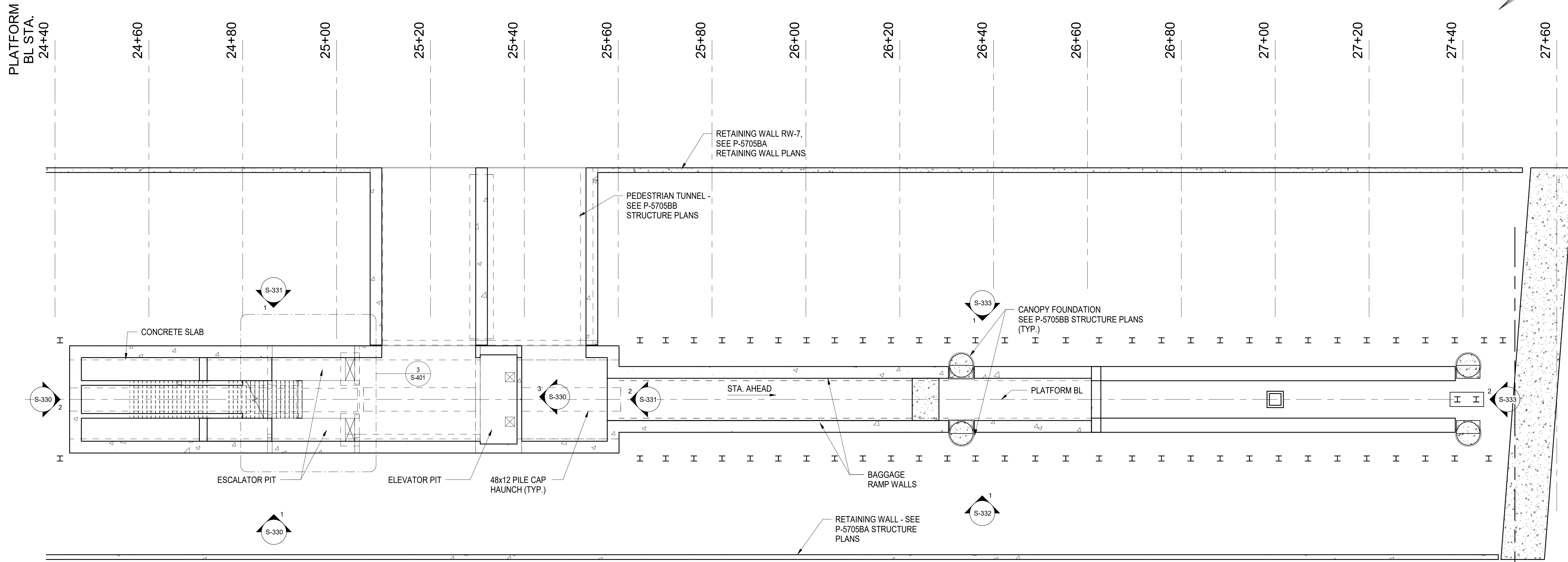
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

4TH STREET FOUNDATION PLAN

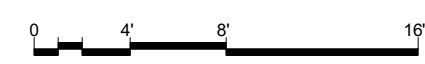
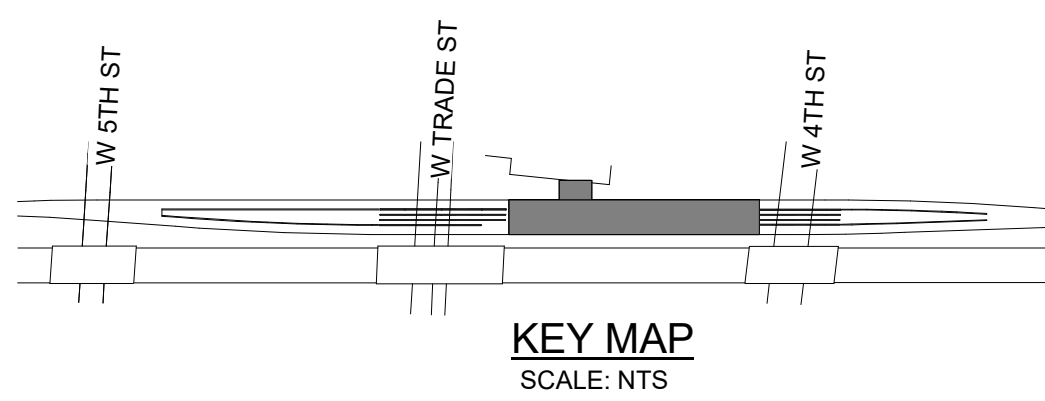
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 10

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-113
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



1 OVERALL CONCOURSE PLAN
S-120 SCALE: 3/32" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



4/5/2018

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CHECKED BY: C. PARK DATE: 3/27/2018

DWG. NO. 11

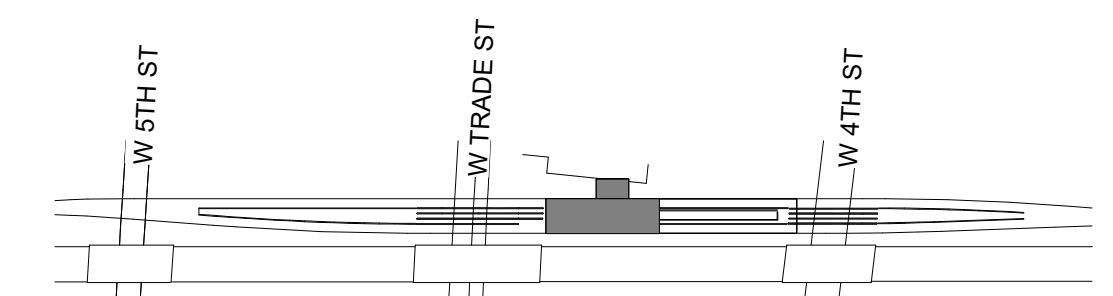
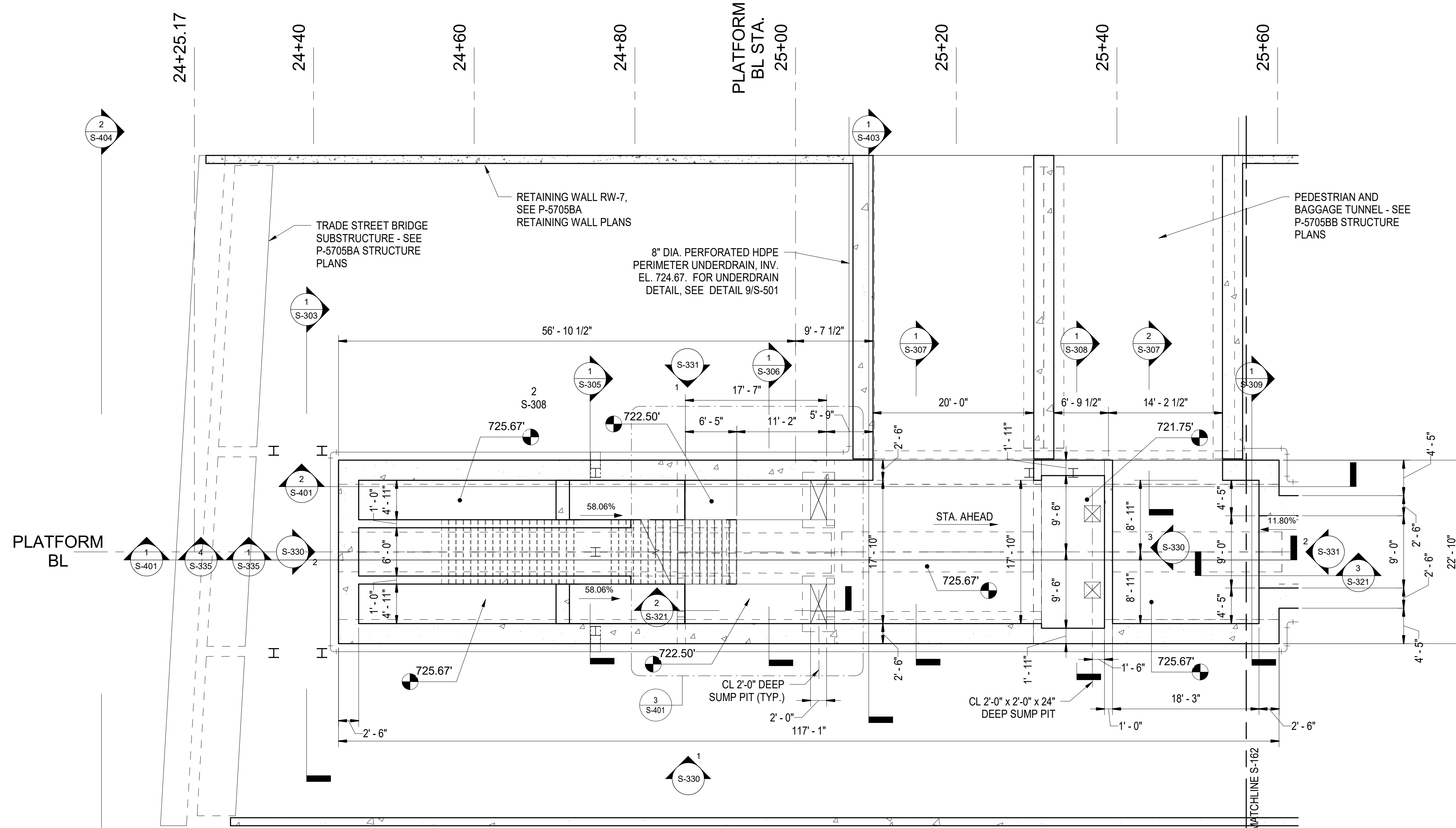
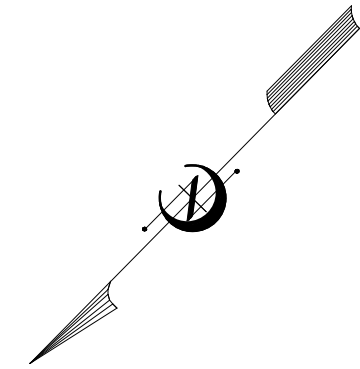
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DEPARTMENT OF TRANSPORTATION
RALEIGH

OVERALL CONCOURSE PLAN

SHEET NO. S-120

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

TOTAL SHEETS 98



KEY MAP
SCALE: NTS

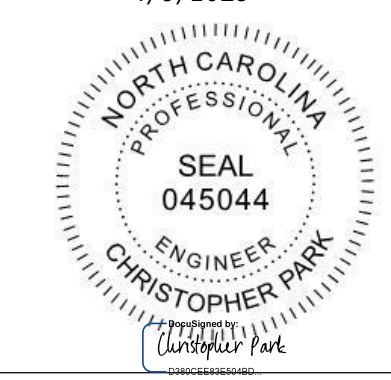
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S-121 ENLARGED CONCOURSE PLAN - 1 AT
ELEV. 740.00
SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

4/5/2018



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SIGNATURES COMPLETED

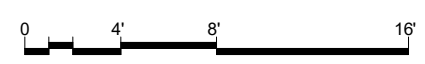
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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

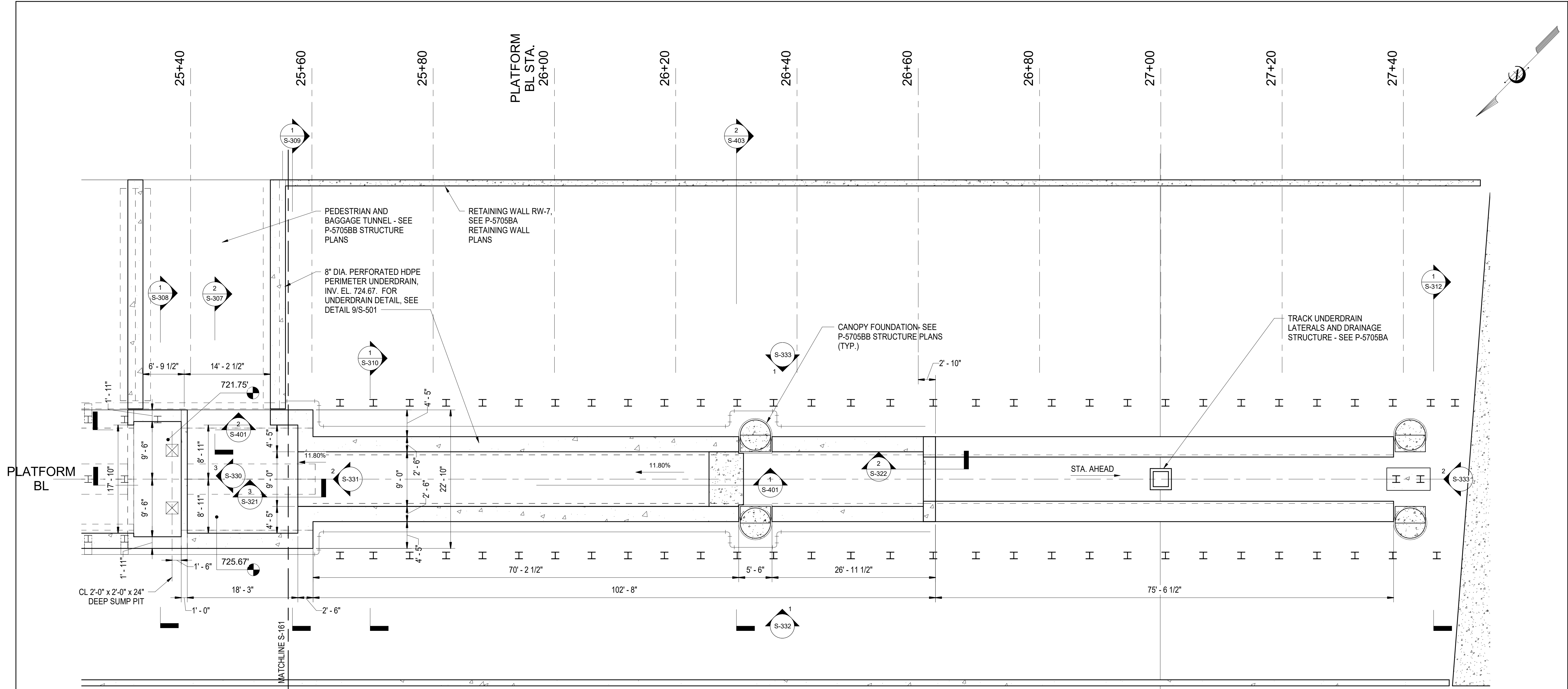
DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018 DWG. NO. 12

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ENLARGED CONCOURSE PLAN

REVISIONS						SHEET NO. S-121
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



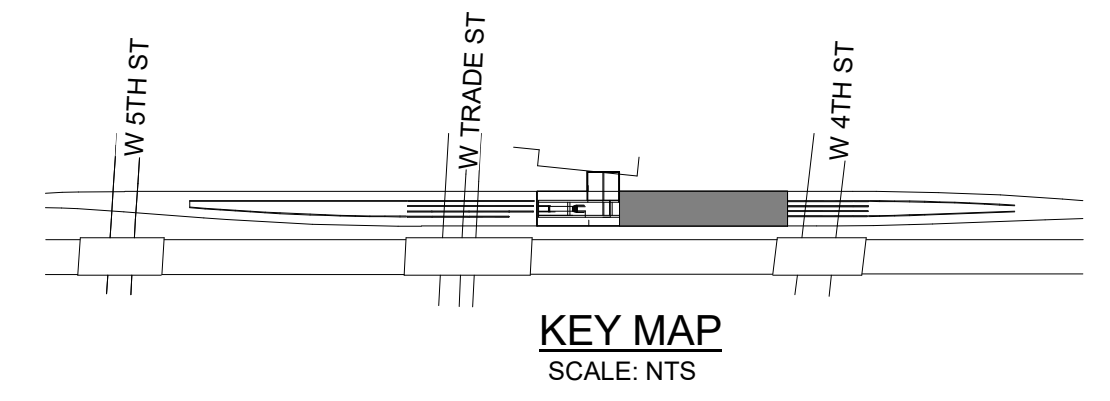


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S-122 ENLARGED CONCOURSE PLAN - 2 AT
ELEV. 740.00
SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2



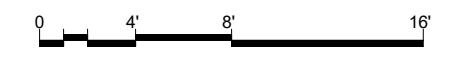
4/5/2018
NORTH CAROLINA
PROFESSIONAL
SEAL
045044
ENGINEER
CHRISTOPHER PARK
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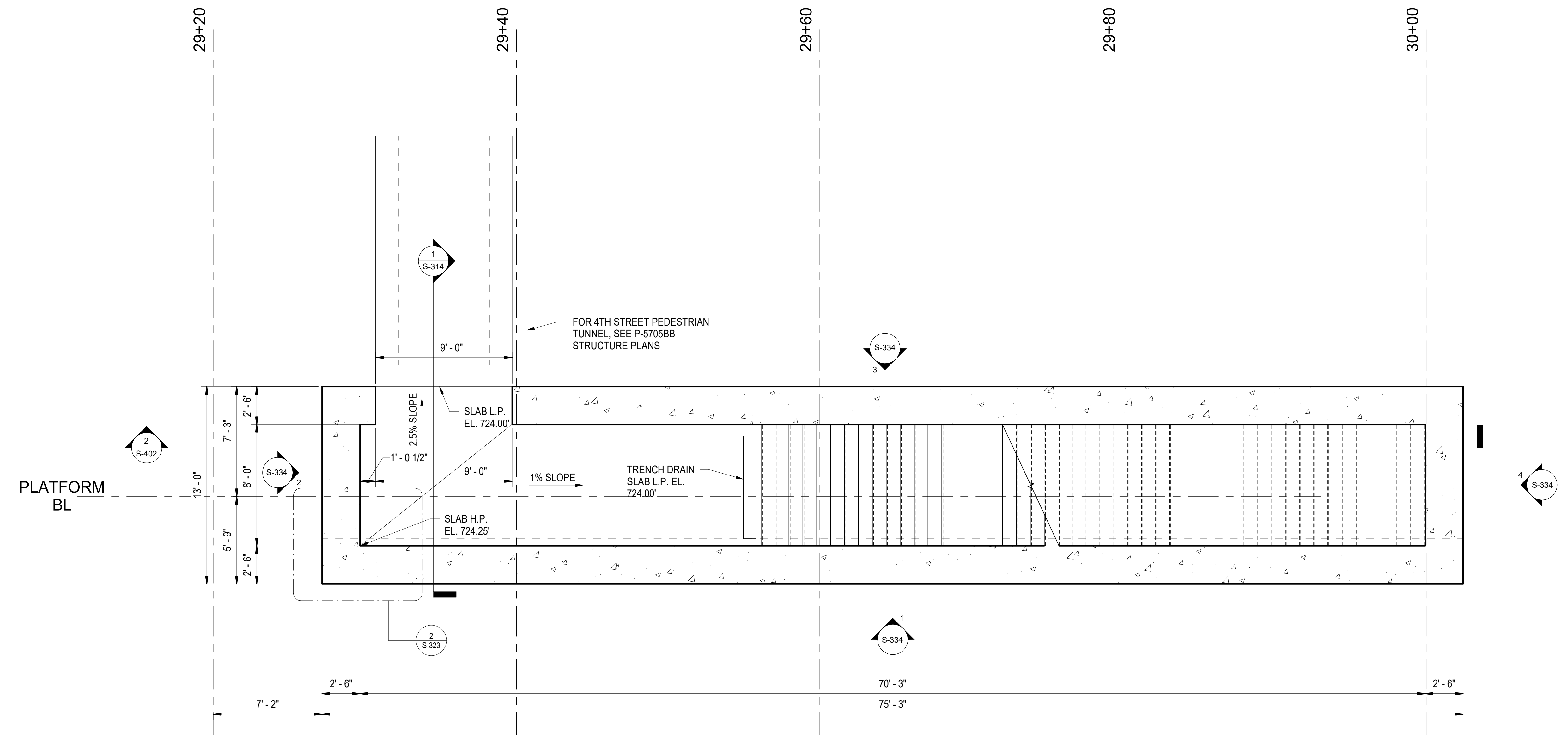
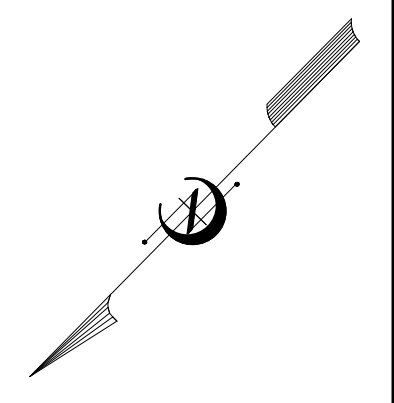
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ENLARGED CONCOURSE PLAN

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DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018 DWG. NO. 13

REVISIONS						SHEET NO. S-122
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			





1 4TH ST EGRESS STAIR PLAN
 S-123 SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

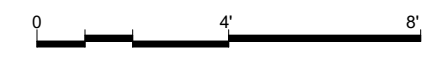


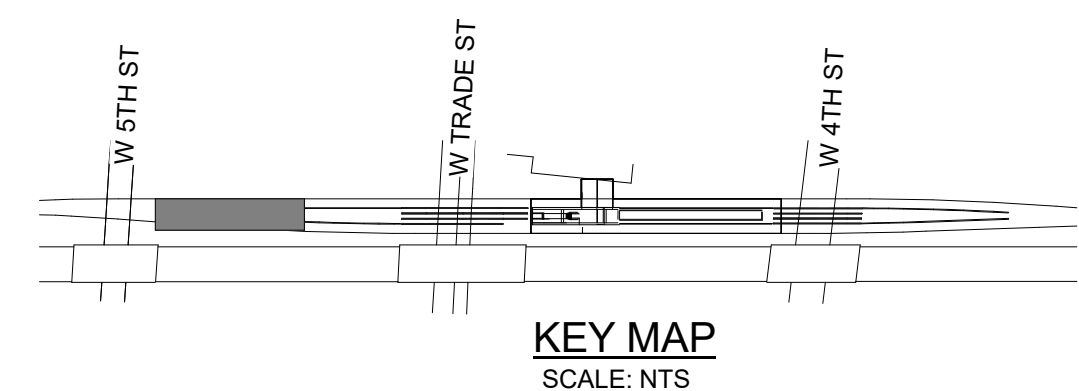
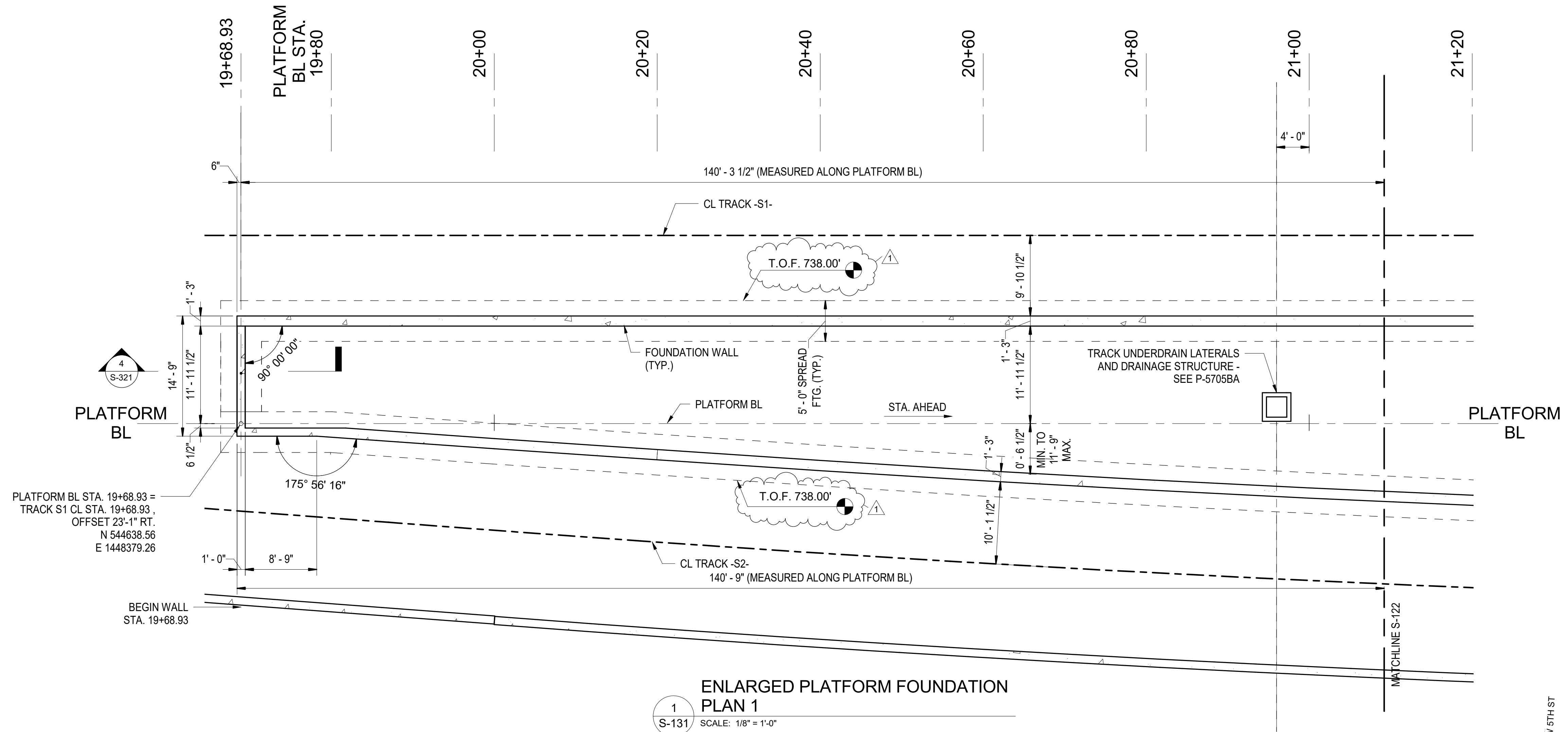
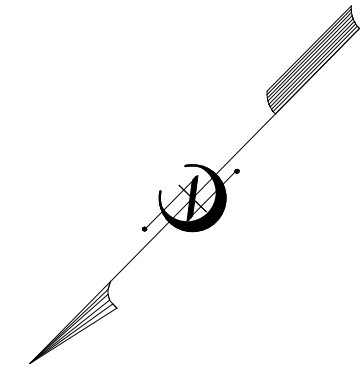
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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 4TH STREET EGRESS STAIR
 PLAN

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REVISIONS						SHEET NO. S-123
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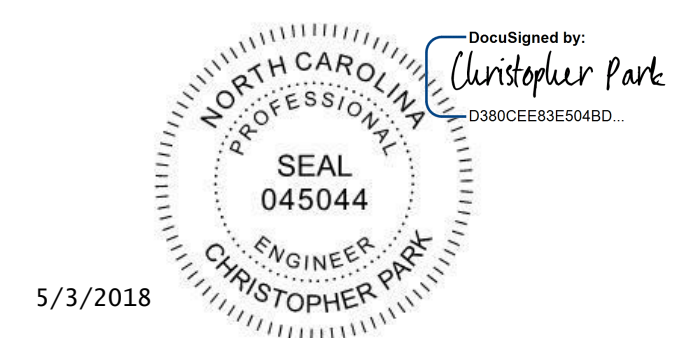




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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 7



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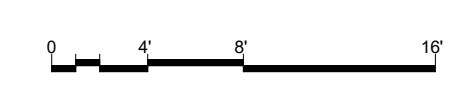
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DEPARTMENT OF TRANSPORTATION
RALEIGH

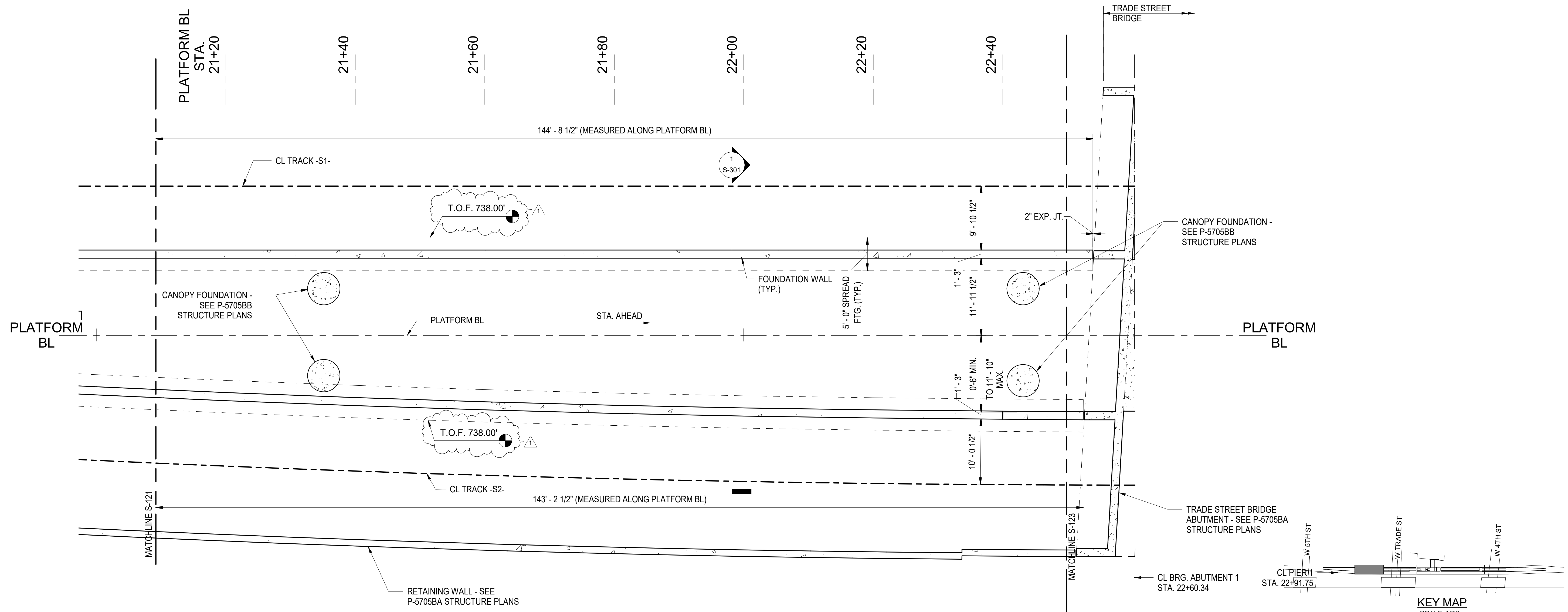
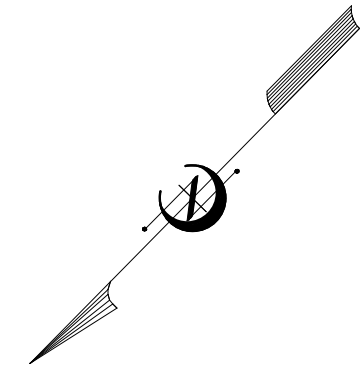
ENLARGED PLATFORM
FOUNDATION PLAN

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NO.	BY	DATE	NO.	BY	DATE	
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2			4			



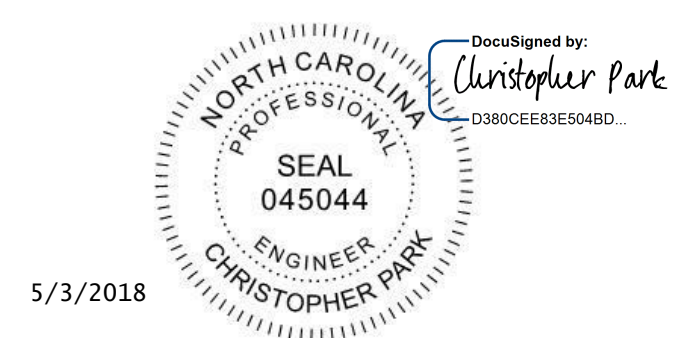


**ENLARGED PLATFORM FOUNDATION
PLAN 2**
SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 7



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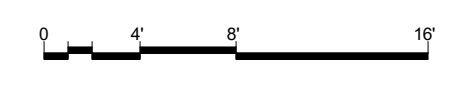
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DEPARTMENT OF TRANSPORTATION
RALEIGH

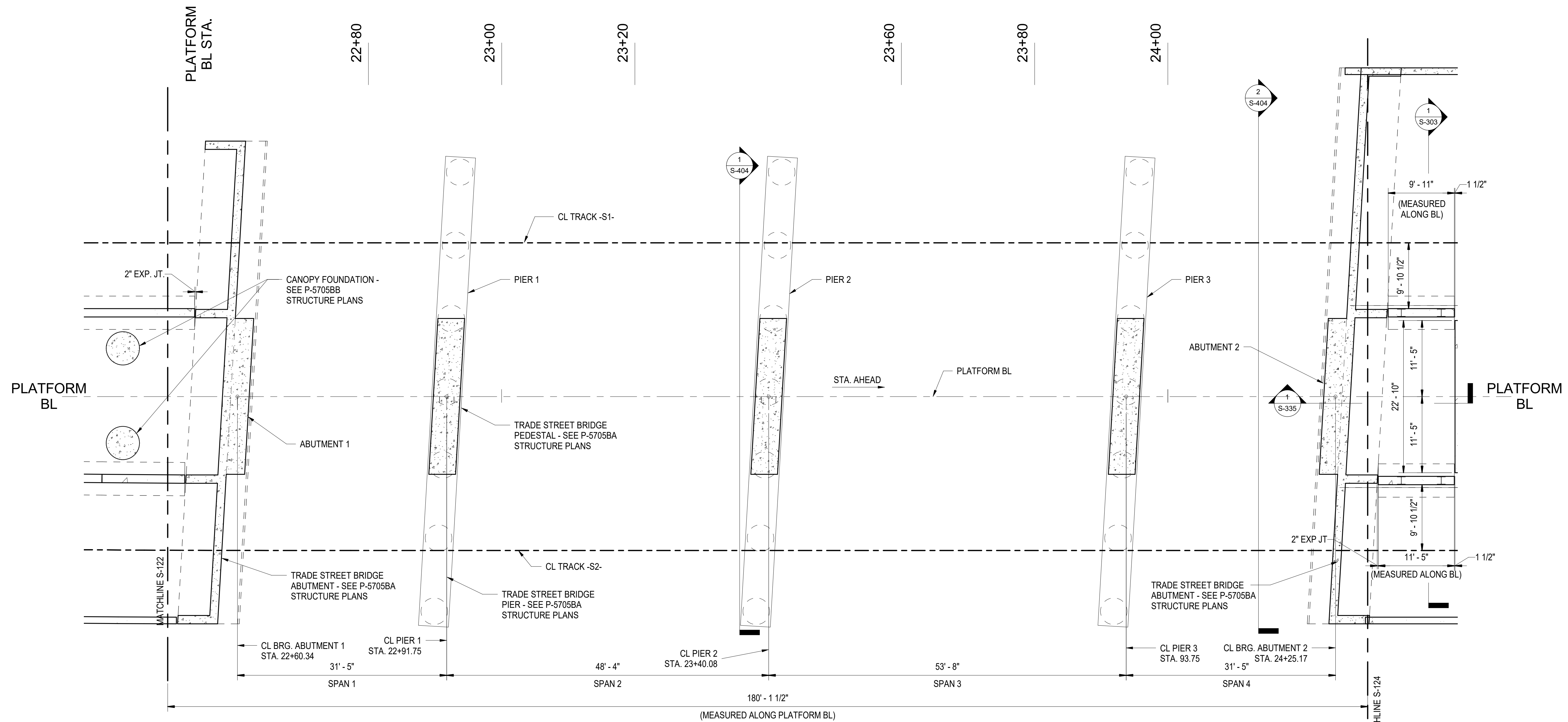
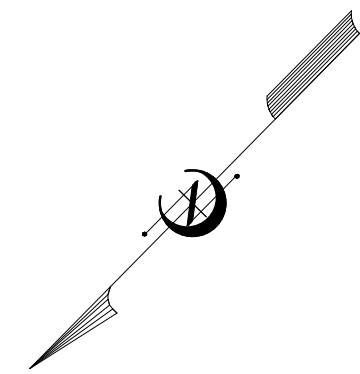
ENLARGED PLATFORM
FOUNDATION PLAN

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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 16

REVISIONS						SHEET NO. S-132
NO.	BY	DATE	NO.	BY	DATE	
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2			4			





STA. AHEAD

**ENLARGED PLATFORM FOUNDATION
PLAN 3 AT TRADE STREET**

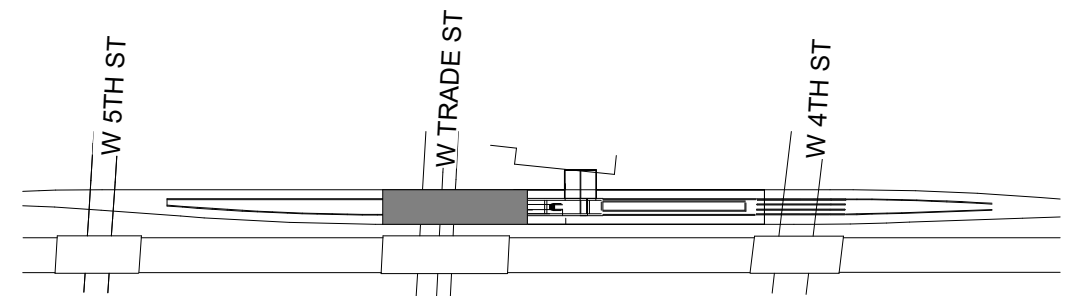
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S-133 SCALE: 1/8" = 1'-0"

NOTES:
BRIDGE SPANS MEASURED ALONG PLATFORM BL.

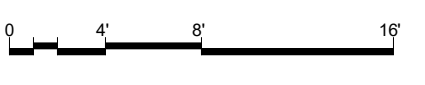
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 3 OF 7



KEY MAP
SCALE: NTS



4/5/2018



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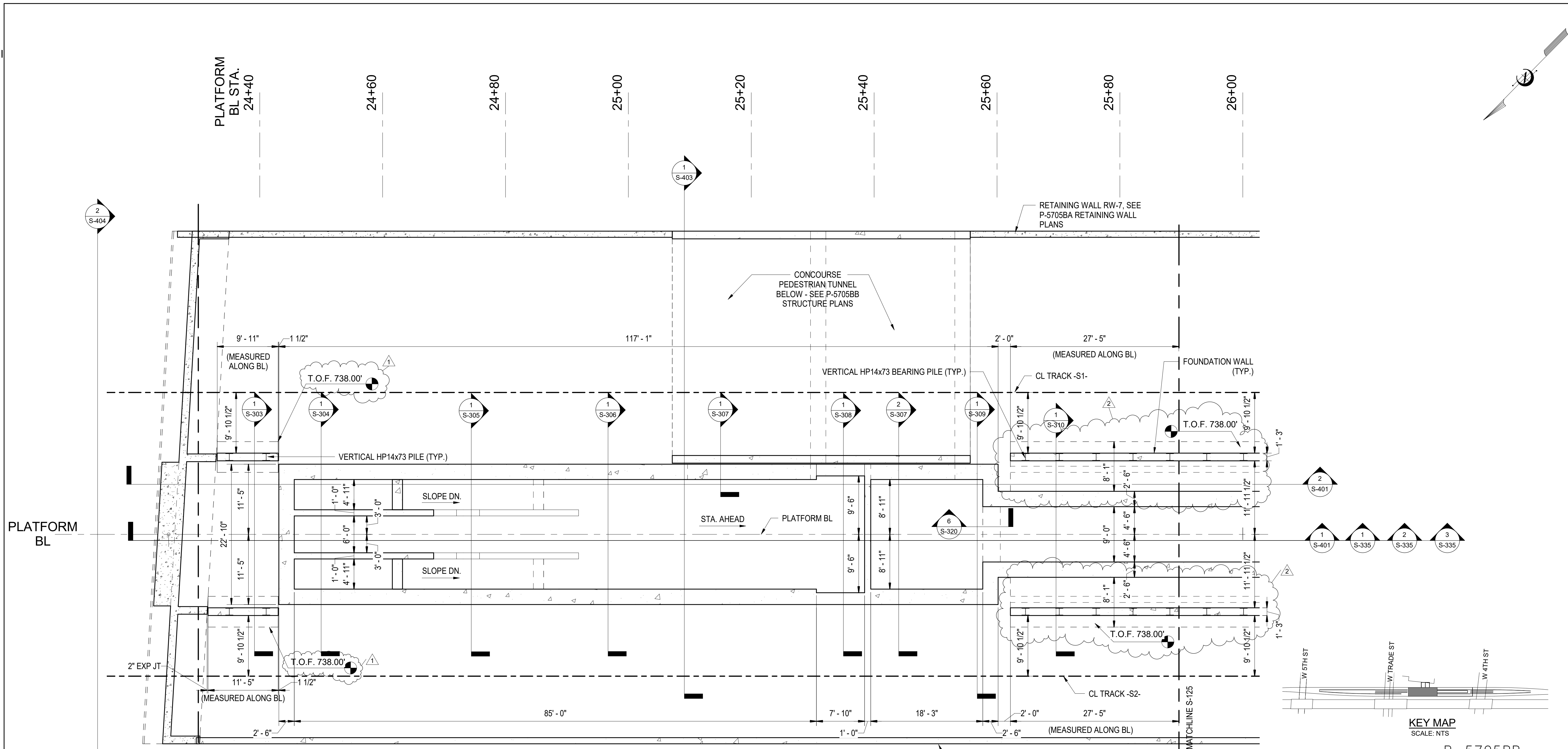
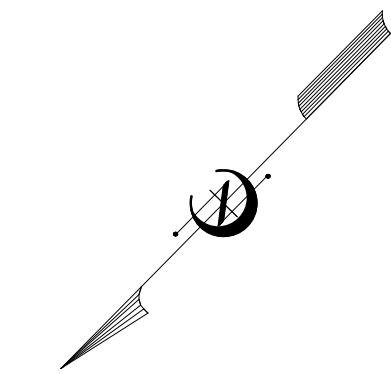
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 17

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

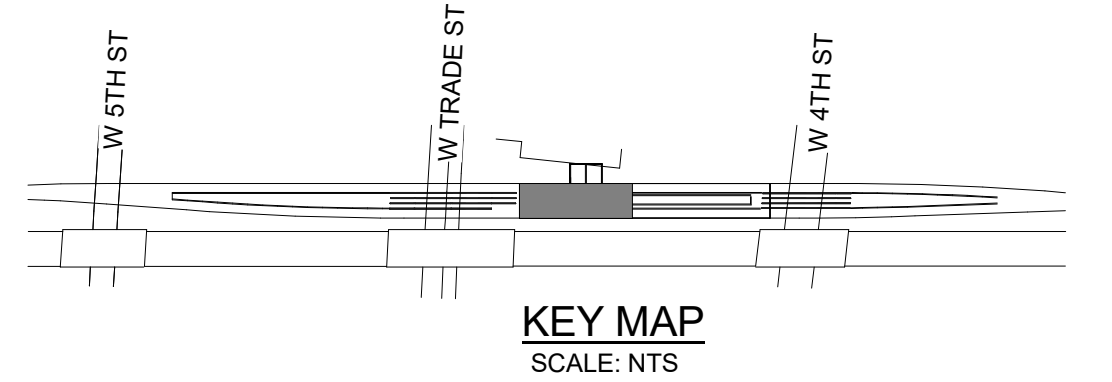
ENLARGED PLATFORM
FOUNDATION PLAN

REVISIONS						SHEET NO. S-133
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



1
S-134 SCALE: 1/8" = 1'-0"

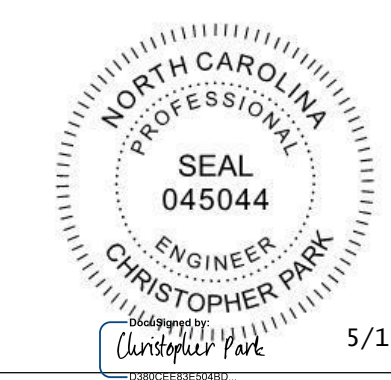
**ENLARGED PLATFORM FOUNDATION
PLAN 4 AT CONCOURSE**



PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 4 OF 7

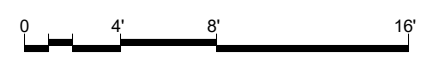


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SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**ENLARGED PLATFORM
FOUNDATION PLAN**



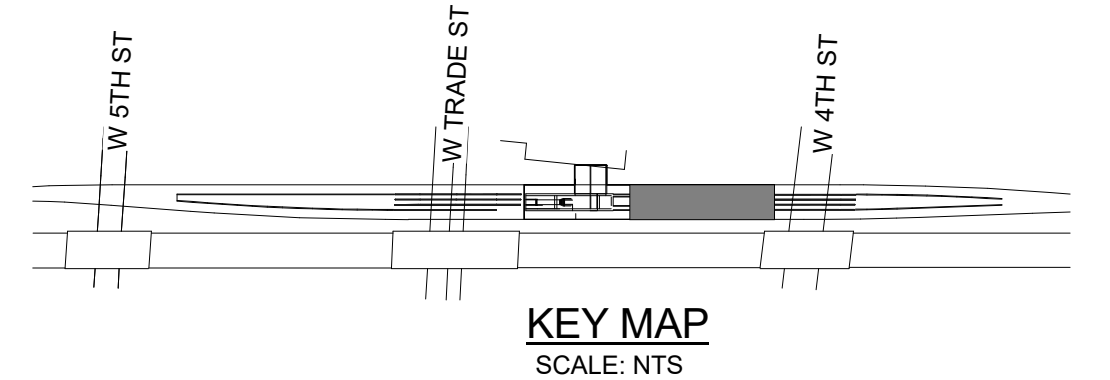
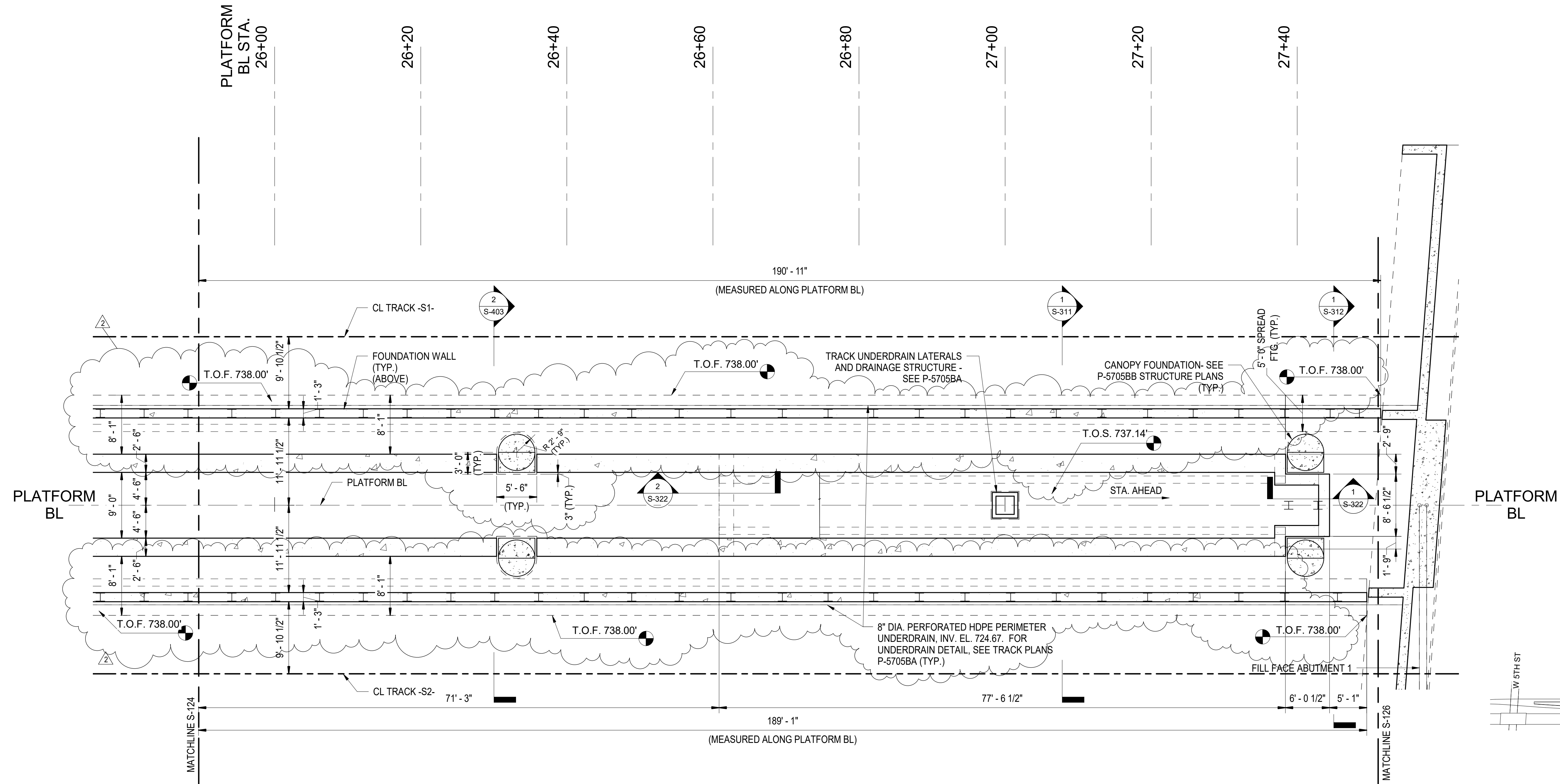
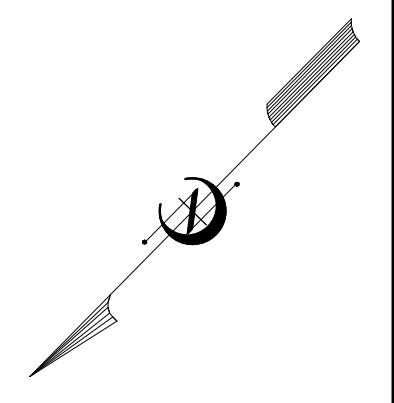
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DWG. NO. 18

DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018

REVISIONS						SHEET NO. S-134
NO.	BY	DATE	NO.	BY	DATE	
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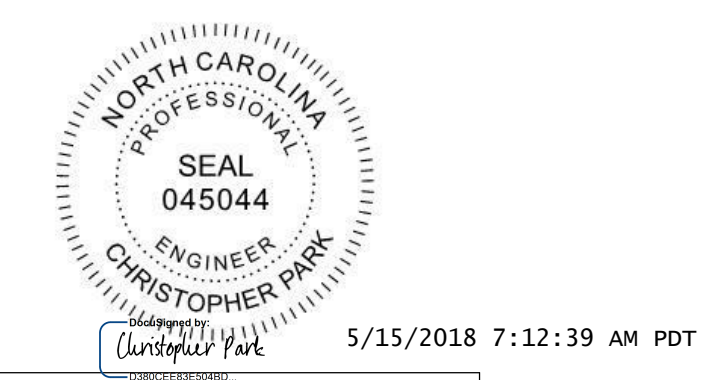


**ENLARGED PLATFORM FOUNDATION
PLAN 5 AT CONCOURSE**
SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 5 OF 7



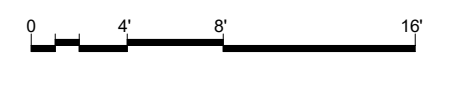
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DEPARTMENT OF TRANSPORTATION
RALEIGH

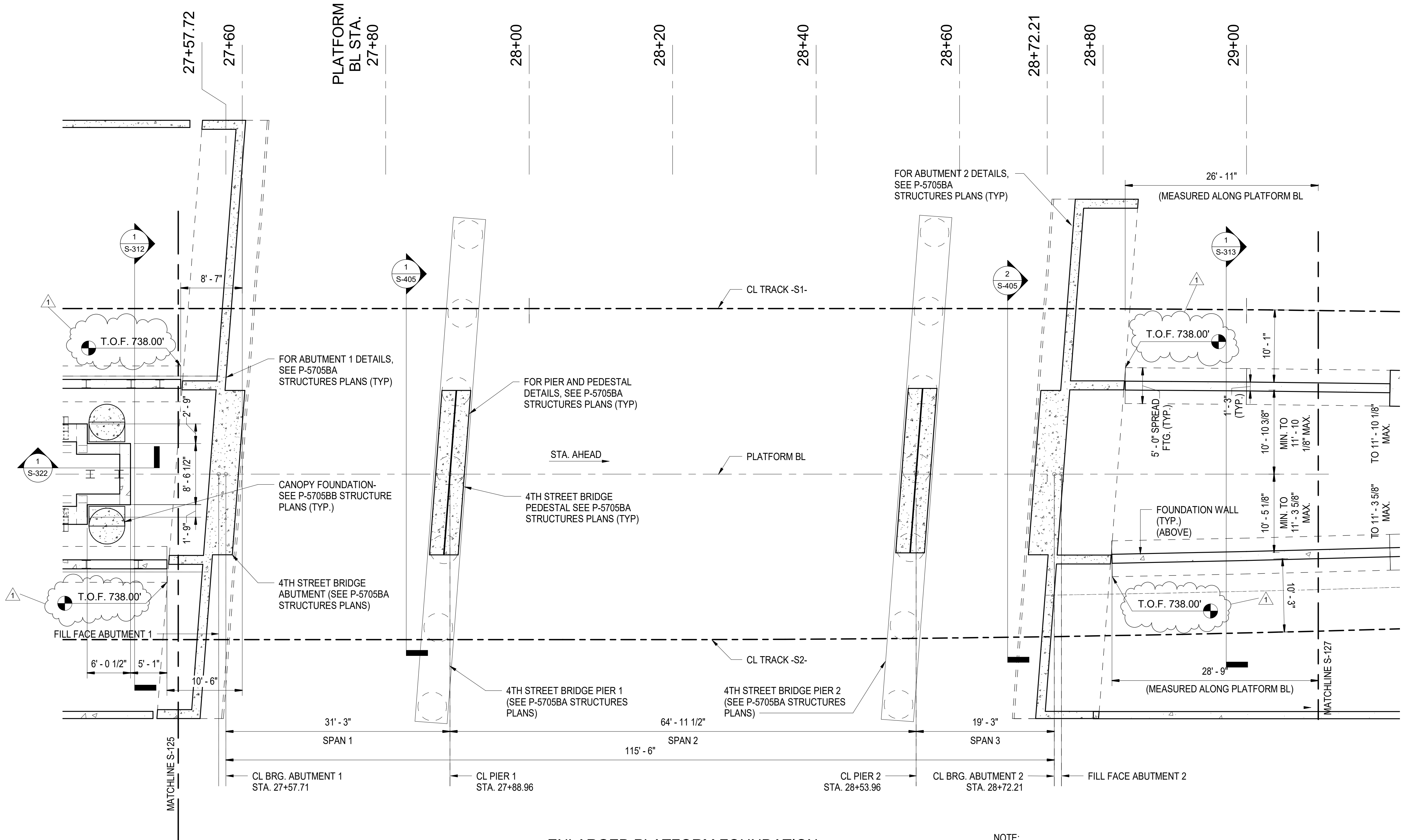
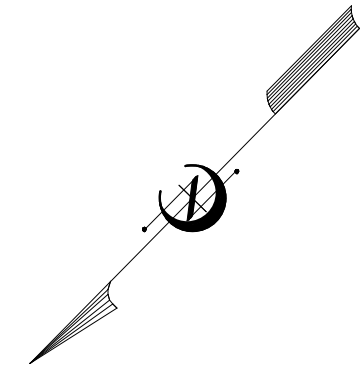
ENLARGED PLATFORM
FOUNDATION PLAN

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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

REVISIONS						SHEET NO. S-135
NO.	BY	DATE	NO.	BY	DATE	
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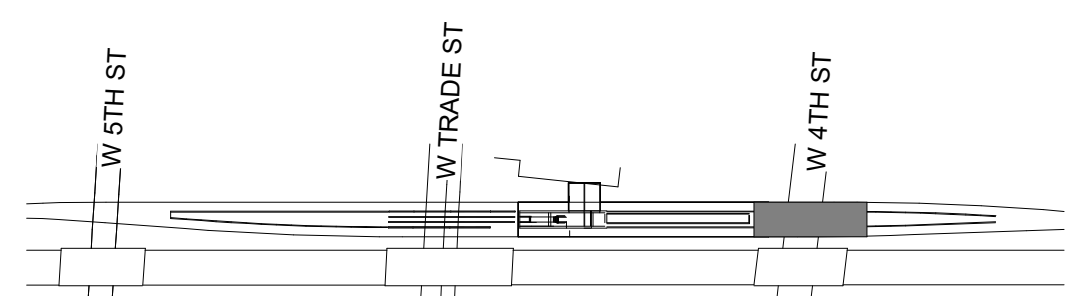


DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY Checker DATE 3/27/2018 DWG. NO. 19



**ENLARGED PLATFORM FOUNDATION
PLAN 6 AT 4TH STREET**
SCALE: 1/8" = 1'-0"

NOTE:
BRIDGE SPAN MEASURED ALONG PLATFORM BL.

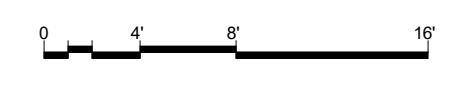


PROJECT NO. P-5705BB
MECKLENBURG COUNTY

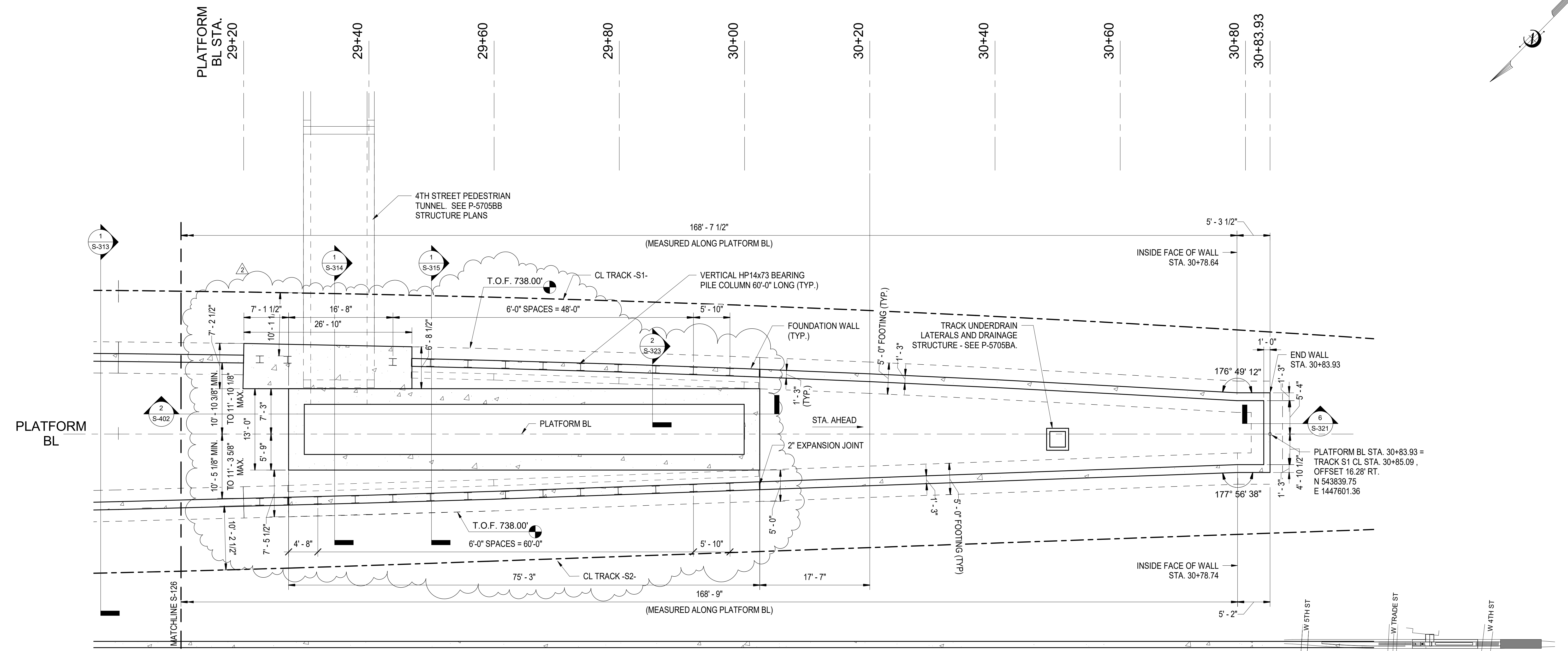
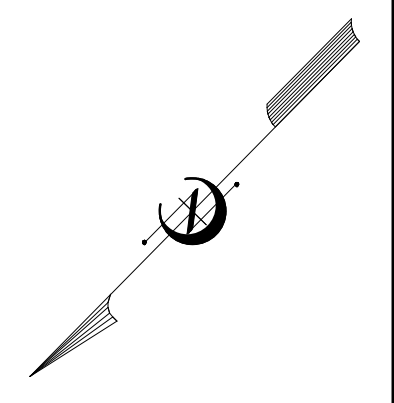
PROJECT NO. 19+68.93 -S1-

SHEET 6 OF 7

		STATE OF NORTH CAROLINA		SHEET NO. S-136															
		DEPARTMENT OF TRANSPORTATION RALEIGH																	
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NO.	BY	DATE	NO.	BY	DATE														
1	CP	5/2/18	3																
2			4																
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S-137

**ENLARGED PLATFORM FOUNDATION
PLAN 7**
SCALE: 1/8" = 1'-0"

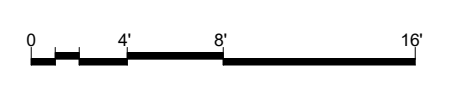


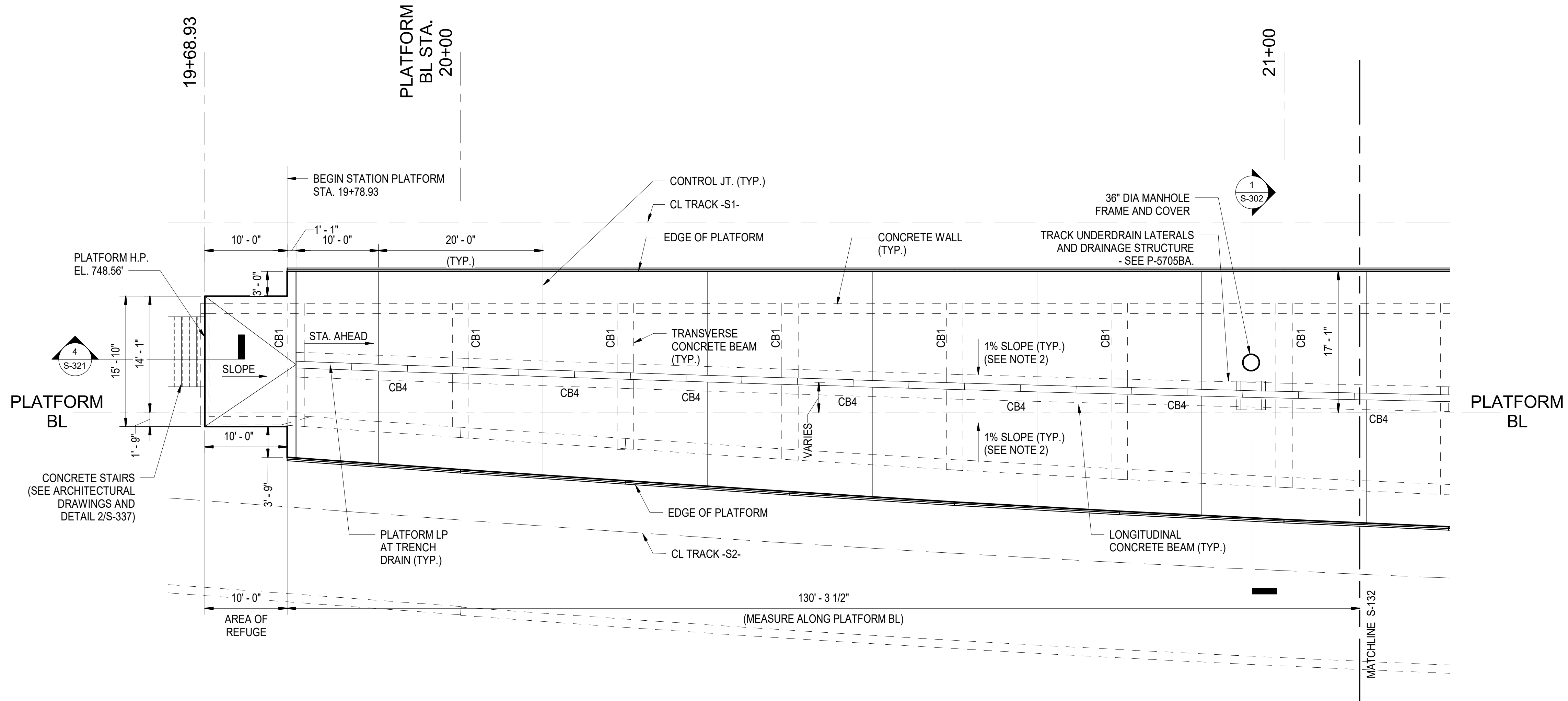
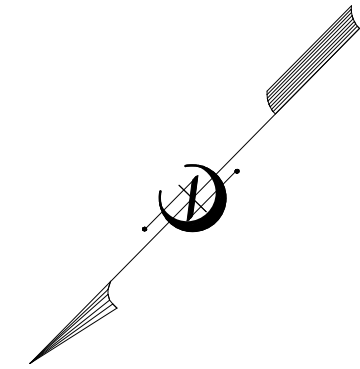
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 7 OF 7

<p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH</p> <p>ENLARGED PLATFORM FOUNDATION PLAN</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CP</td> <td>5/2/18</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>CP</td> <td>5/10/18</td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>			NO.	BY	DATE	NO.	BY	DATE	1	CP	5/2/18	3			2	CP	5/10/18	4			<p>SHEET NO. S-137</p>
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2	CP	5/10/18	4																				
<p>HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</p> <p>DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u> DWG. NO. 21</p>		<p>TOTAL SHEETS 98</p>																					

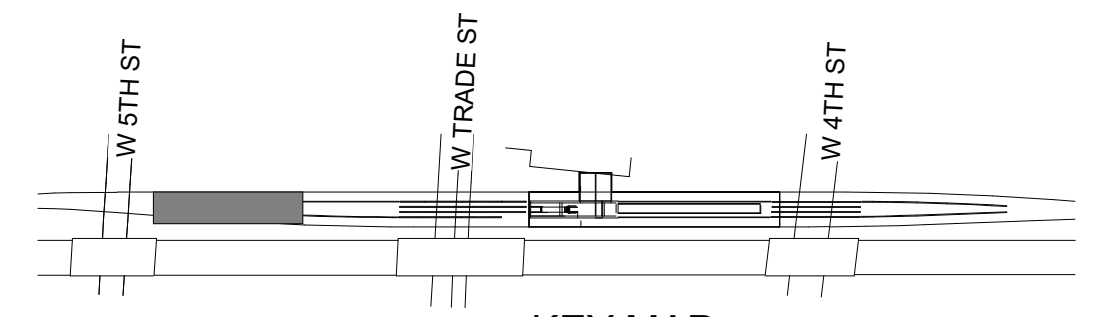




NOTES:

1. FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
2. CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
3. ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
4. CONCRETE BEAM DETAILS - SEE DWG S-320
5. FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.

1 ENLARGED PLATFORM PLAN 1
 S-141 SCALE: 1/8" = 1'-0"



KEY MAP
 SCALE: NTS

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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 7

4/5/2018



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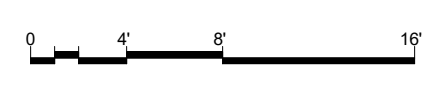
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

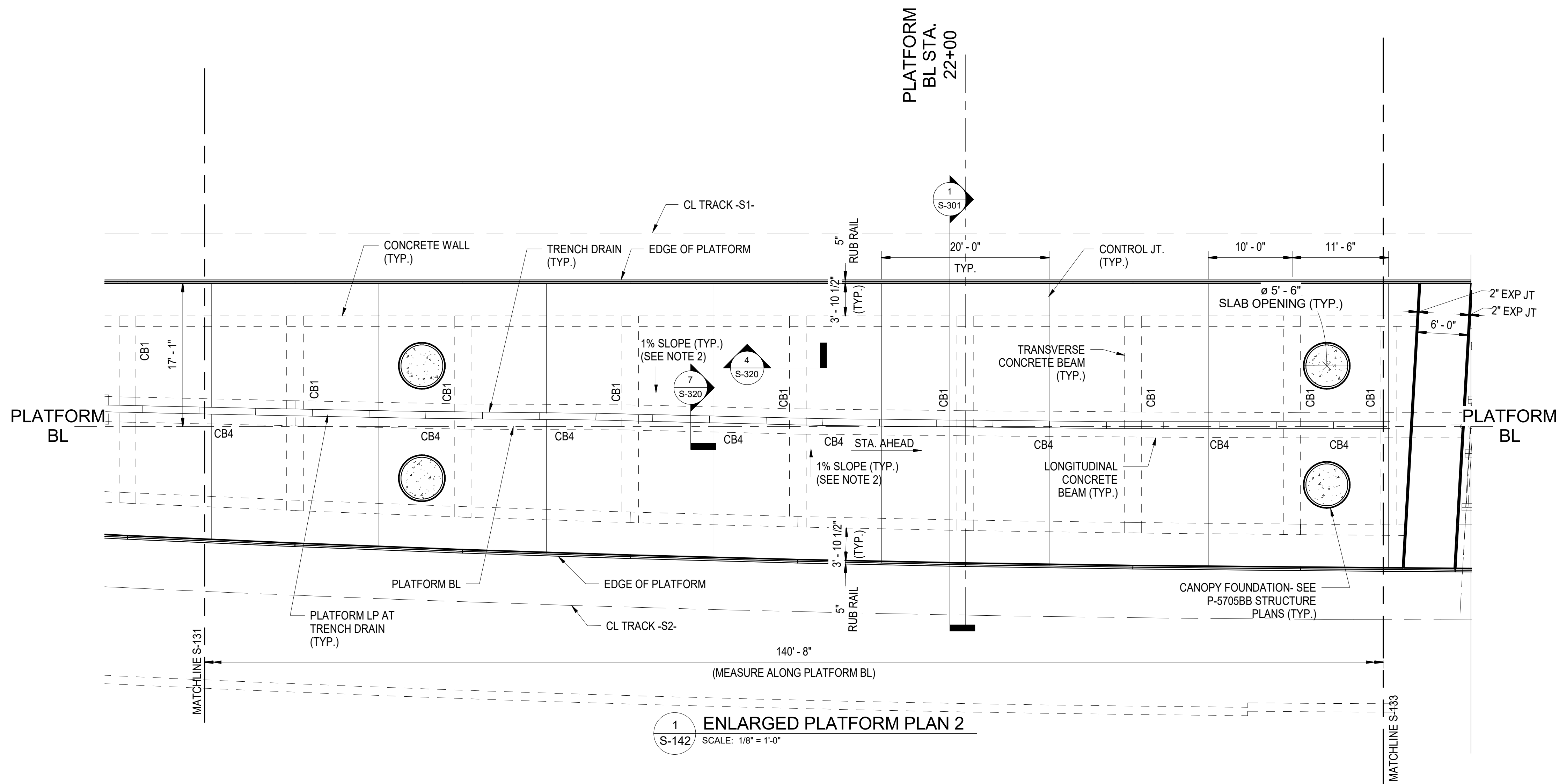
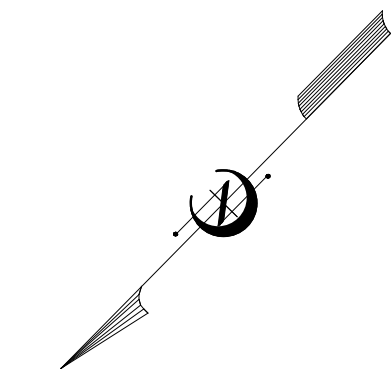
ENLARGED PLATFORM PLAN

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REVISIONS						SHEET NO. S-141
NO.	BY	DATE	NO.	BY	DATE	
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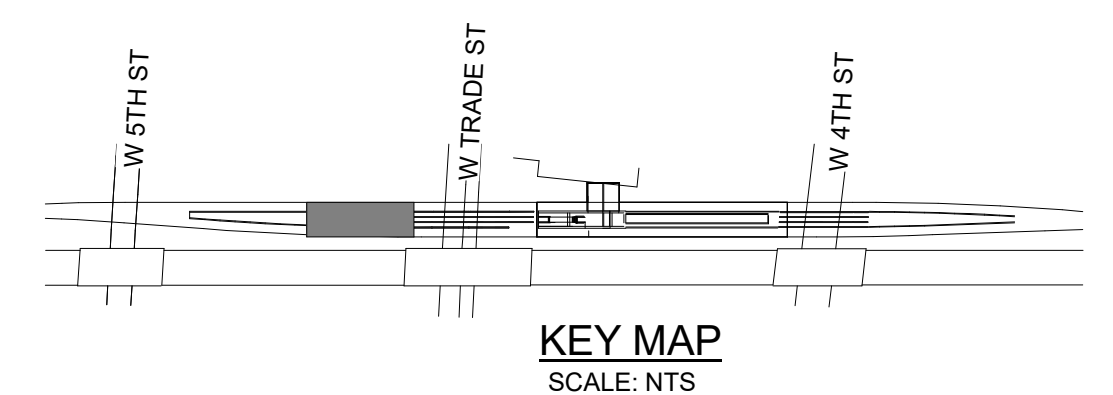




1 ENLARGED PLATFORM PLAN 2
S-142 SCALE: 1/8" = 1'-0"

NOTES:

1. FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
2. CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
3. ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
4. CONCRETE BEAM DETAILS - SEE DWG S-320
5. FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.



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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 7



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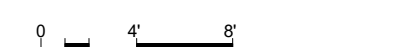
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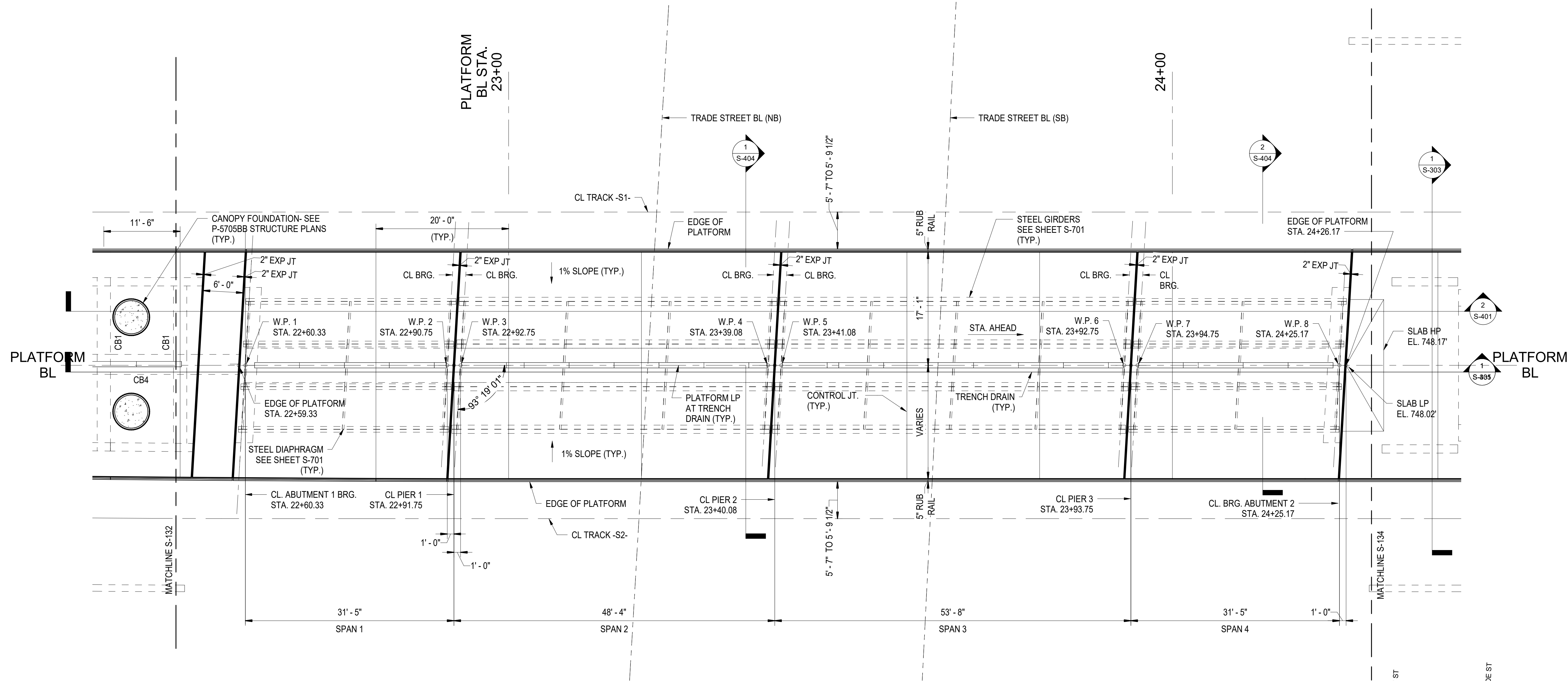
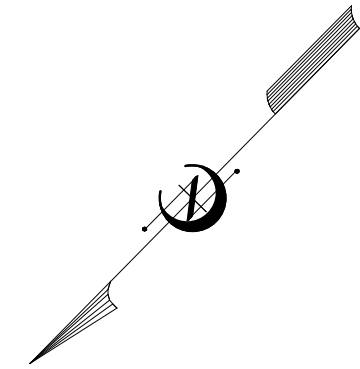
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 23

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DEPARTMENT OF TRANSPORTATION
RALEIGH

ENLARGED PLATFORM PLAN

REVISIONS						SHEET NO. S-142
NO.	BY	DATE	NO.	BY	DATE	
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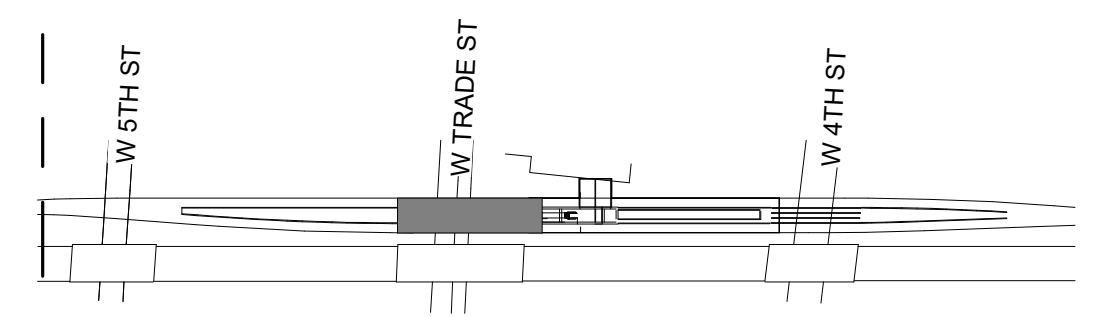
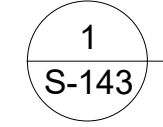


NOTES:

NOTES:

- FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
- CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
- ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
- FOR PLATFORM STEEL GIRDER FRAMING PLAN, SEE SHEET S-701.
- FOR TRADE STREET PLATFORM SLAB REINFORCING PLAN, SEE SHEET S-710.
- FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.

ENLARGED PLATFORM PLAN 3 AT TRADE STREET
 SCALE: 1/8" = 1'-0"



KEY MAP
SCALE: NTS

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

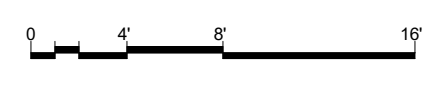
SHEET 3 OF 7

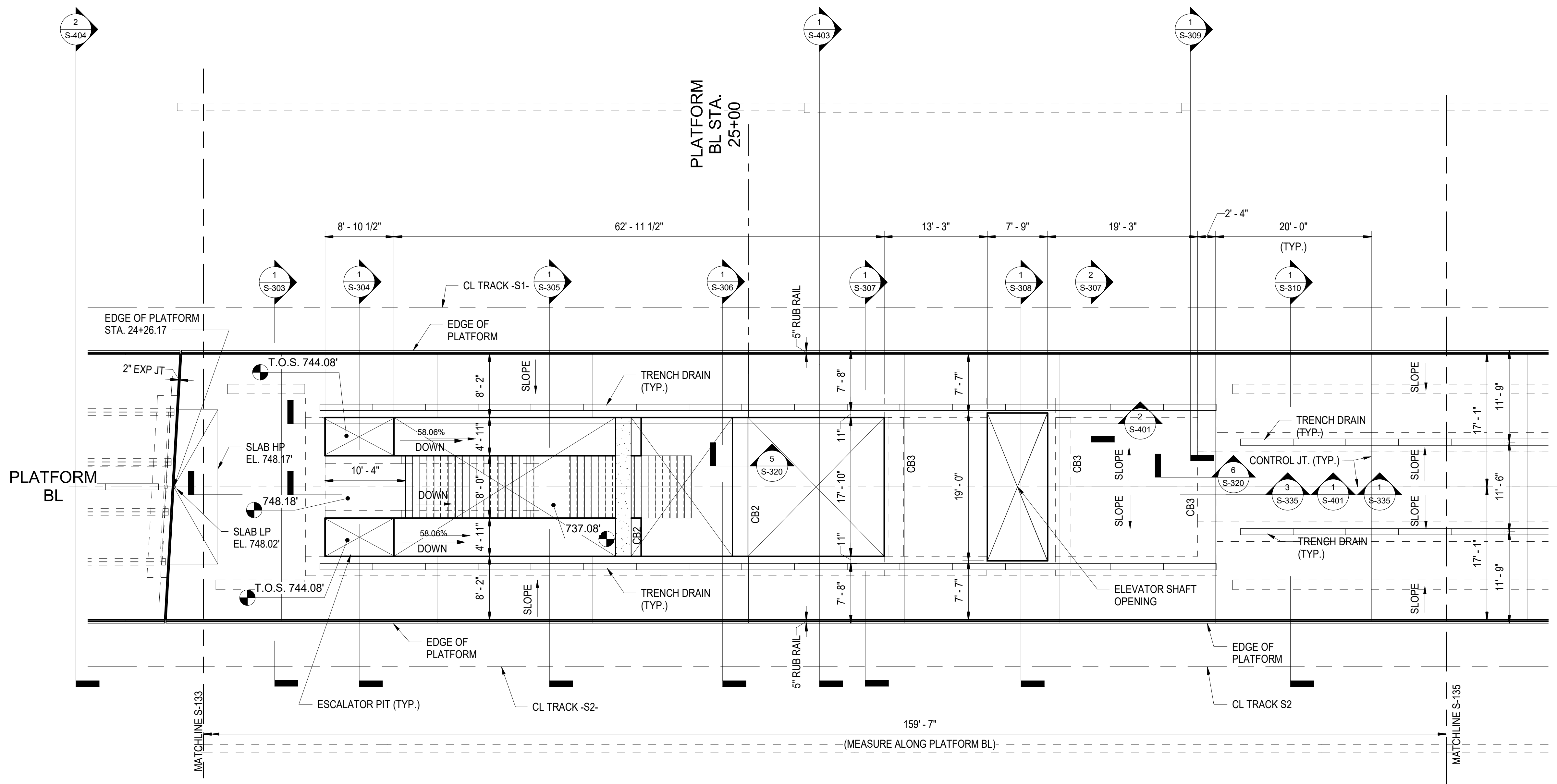
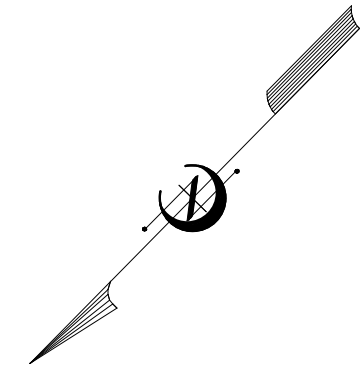
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NO. 1 BY DATE	NO. 2 BY DATE	NO. 3 BY DATE	NO. 4 BY DATE	TOTAL SHEETS 98

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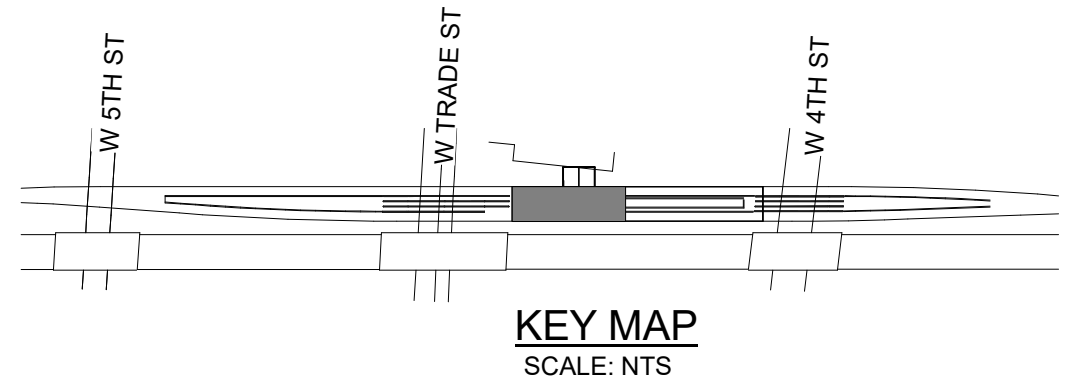
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 CHECKED BY C. PARK DATE 3/27/2018





- NOTES:**
1. FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
 2. CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
 3. ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
 4. CONCRETE BEAM DETAILS - SEE DWG S-320
 5. FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.

ENLARGED PLATFORM PLAN 4 AT CONCOURSE
 1 S-144 SCALE: 1/8" = 1'-0"

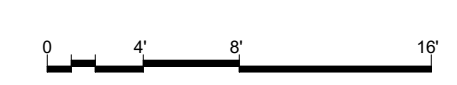


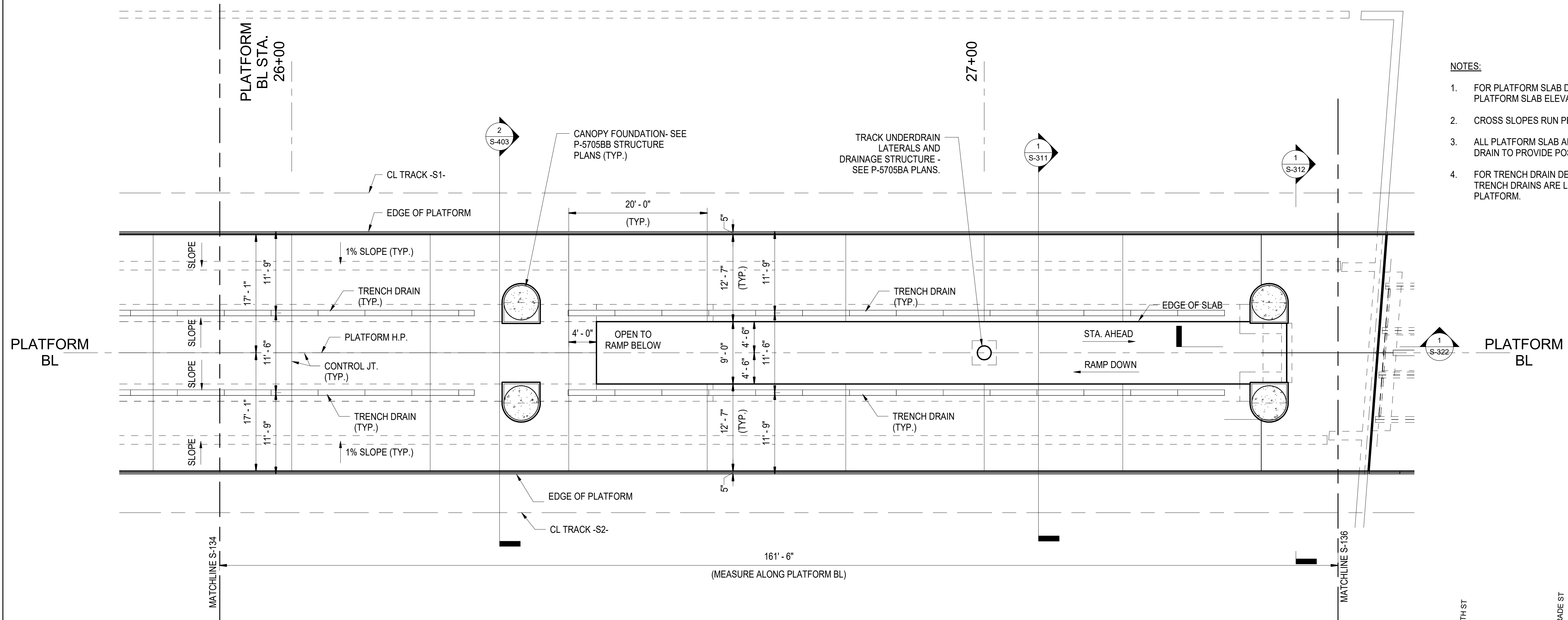
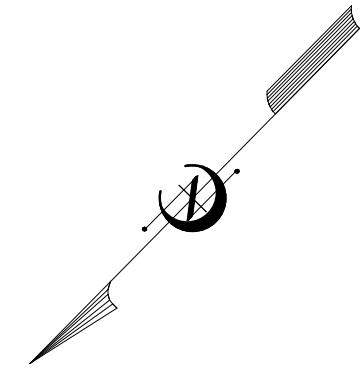
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 4 OF 7

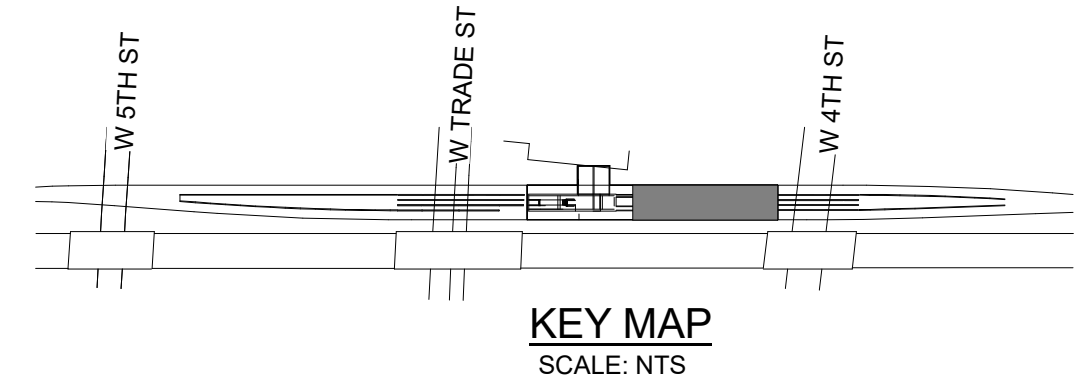
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HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS				TOTAL SHEETS 98
		NO.	BY	DATE	NO.	
DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>		DWG. NO.	25			





- NOTES:**
- FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
 - CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
 - ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
 - FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.

ENLARGED PLATFORM PLAN 5 AT BAGGAGE RAMP
 SCALE: 1/8" = 1'-0"



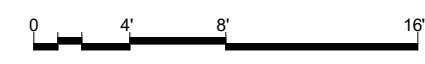
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MECKLENBURG COUNTY

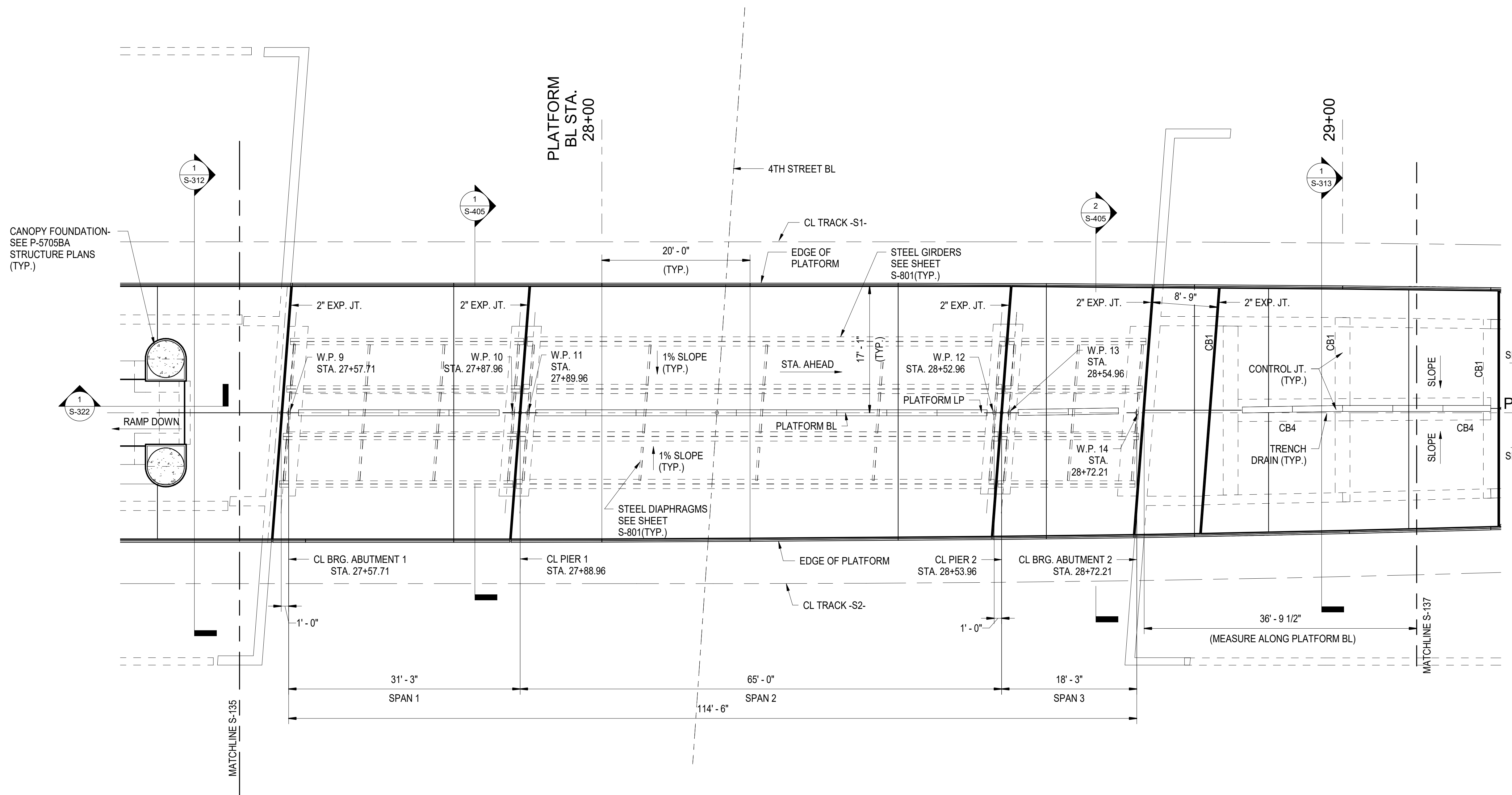
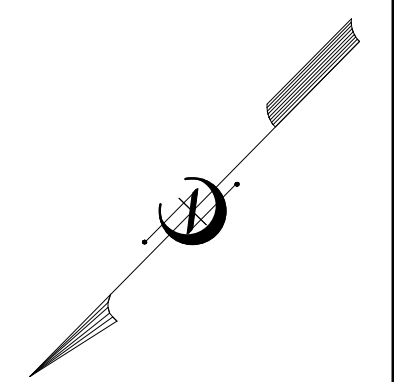
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SHEET 5 OF 7

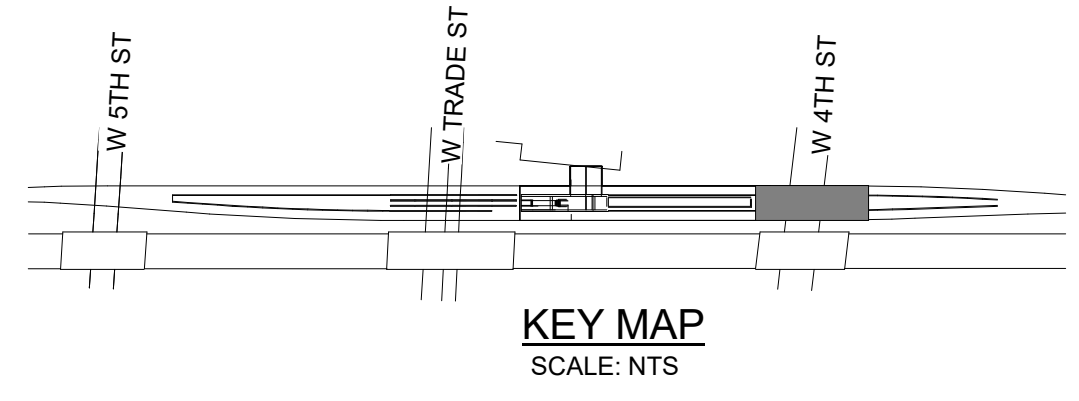
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NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS 98
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2			4			

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 DWG. NO. 26





- NOTES:**
1. FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
 2. CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
 3. ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
 4. CONCRETE BEAM DETAILS - SEE DWG S-320
 5. FOR PLATFORM STEEL GIRDER FRAMING PLAN, SEE SHEET S-801.
 6. FOR 4TH STREET PLATFORM SLAB REINFORCING PLAN, SEE SHEET S-809.
 7. FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.



ENLARGED PLATFORM PLAN 6 AT 4TH STREET
 1 S-146 SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 6 OF 7

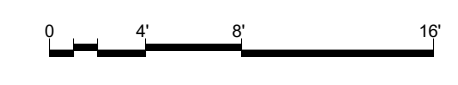
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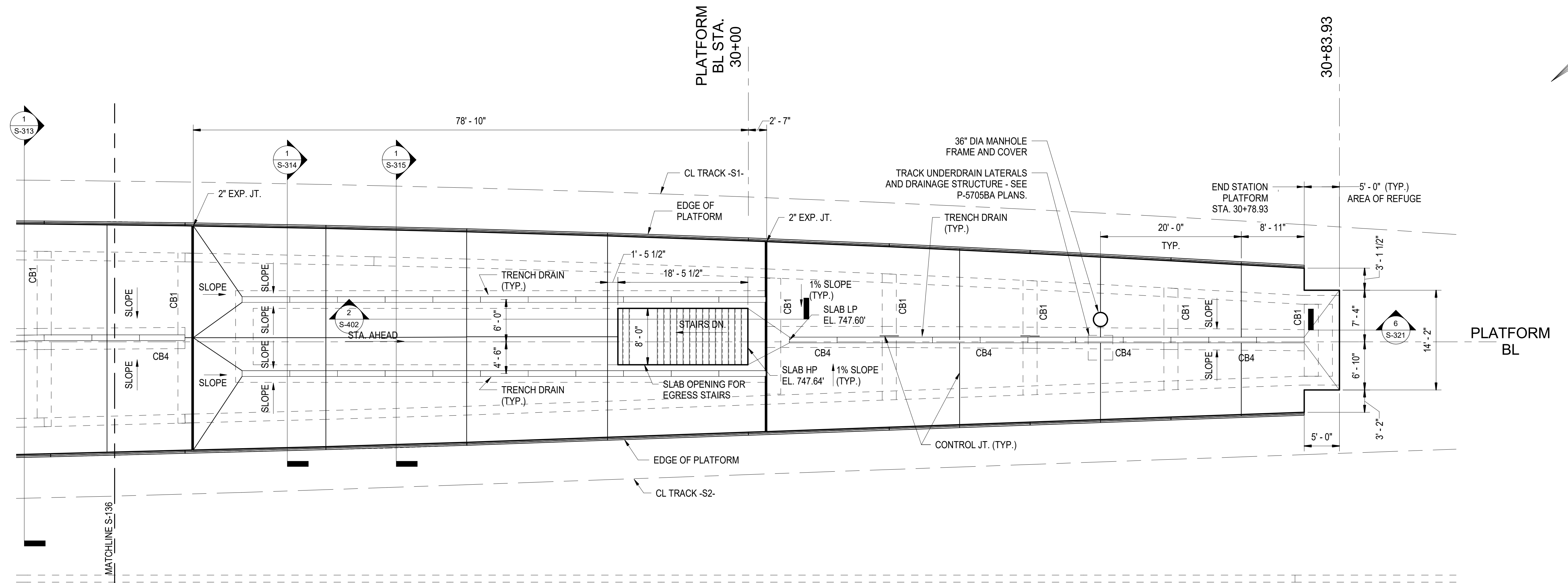
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 CHECKED BY C. PARK DATE 3/27/2018

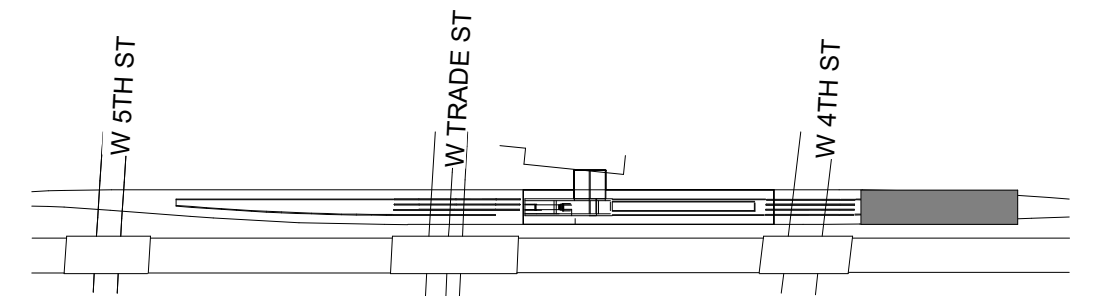




1 ENLARGED PLATFORM PLAN 7
S-147 SCALE: 1/8" = 1'-0"

NOTES:

- FOR PLATFORM SLAB DIMENSIONS AND ELEVATIONS, SEE THE PLATFORM SLAB ELEVATION TABLE ON DWG. S-601 AND S-602.
- CROSS SLOPES RUN PERPENDICULAR TO PLATFORM BL.
- ALL PLATFORM SLAB AREAS SHALL BE SLOPED TOWARDS TRENCH DRAIN TO PROVIDE POSITIVE DRAINAGE AND ELIMINATE PONDING.
- CONCRETE BEAM DETAILS - SEE DWG S-320
- FOR TRENCH DRAIN DETAILS, SEE PLUMBING DRAWINGS. CENTER TRENCH DRAINS ARE LOCATED EQUALLY BETWEEN EDGES OF PLATFORM.

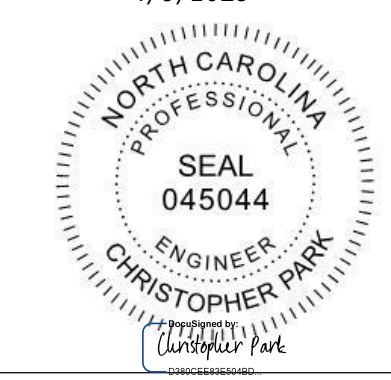


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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 7 OF 7

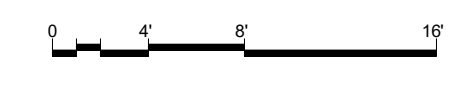
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RALEIGH

ENLARGED PLATFORM PLAN



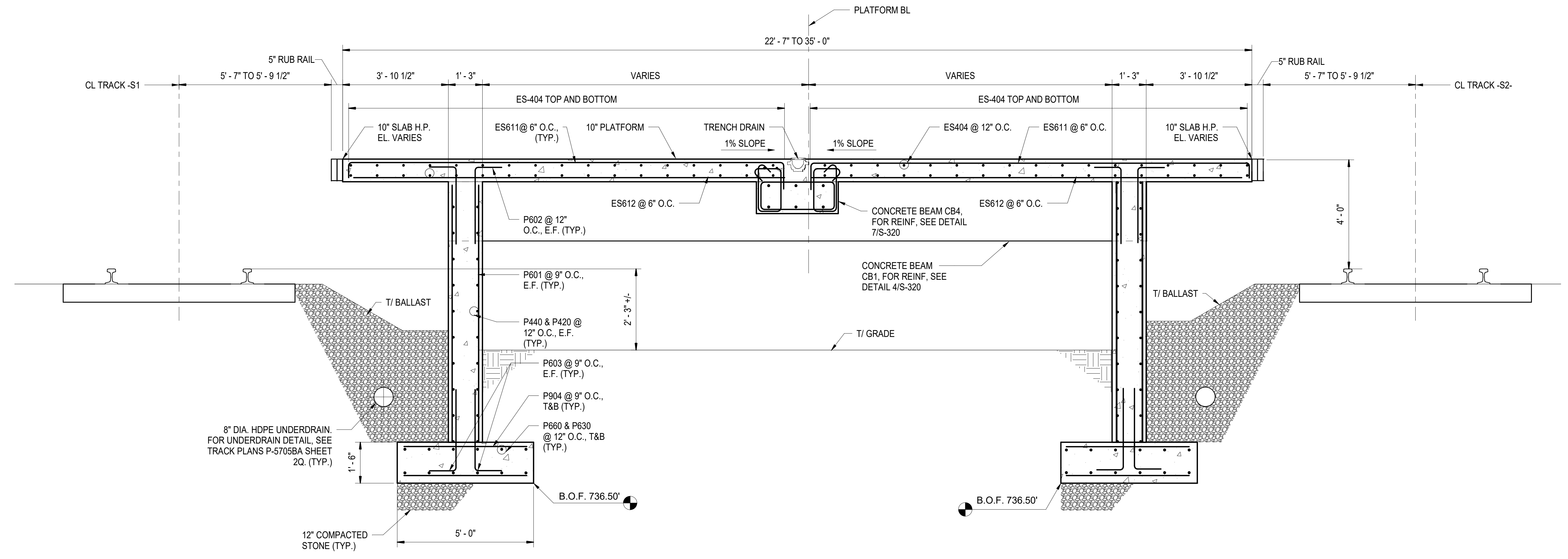
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DWG. NO. 28

REVISIONS						SHEET NO. S-147
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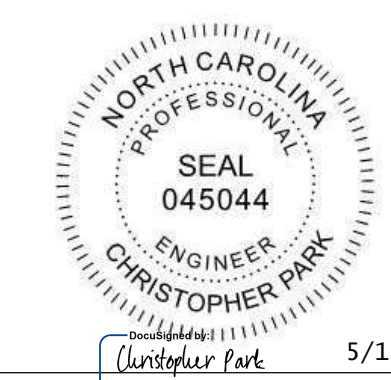
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S-301

TYPICAL NORTH PLATFORM SECTION - STA 22+00
SCALE: 1/2" = 1'-0"

- NOTES:**
- FOR FOUNDATION UNDERRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

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PROJECT NO. 19+68.93 -S1-



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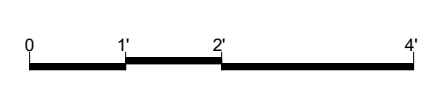
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RALEIGH

PLATFORM SECTION - STA. 22+00

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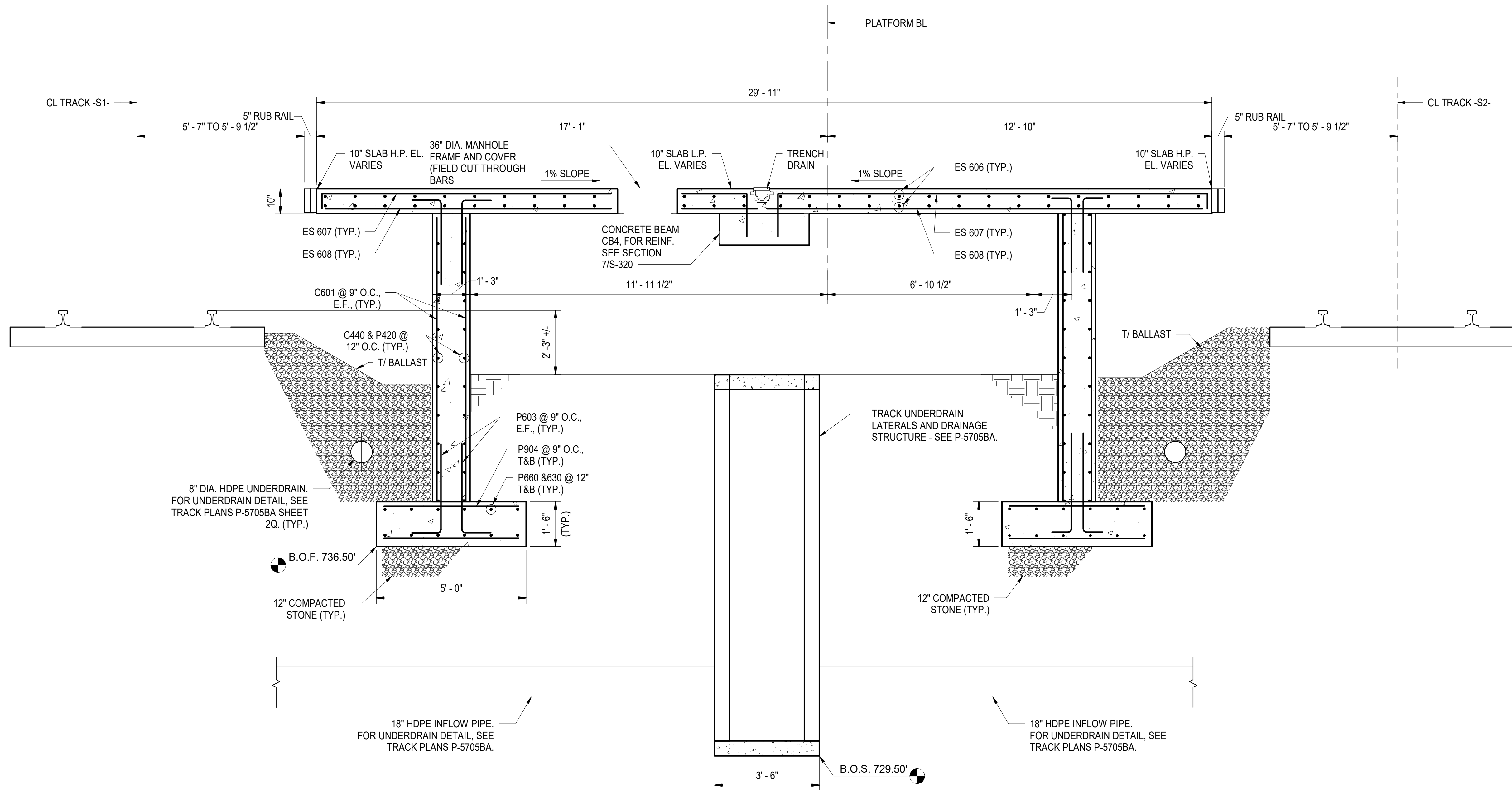
DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 29

REVISIONS						SHEET NO. S-301
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/10/18	3			TOTAL SHEETS 98
2			4			



NOTES:

- FOR FOUNDATION UNDERRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

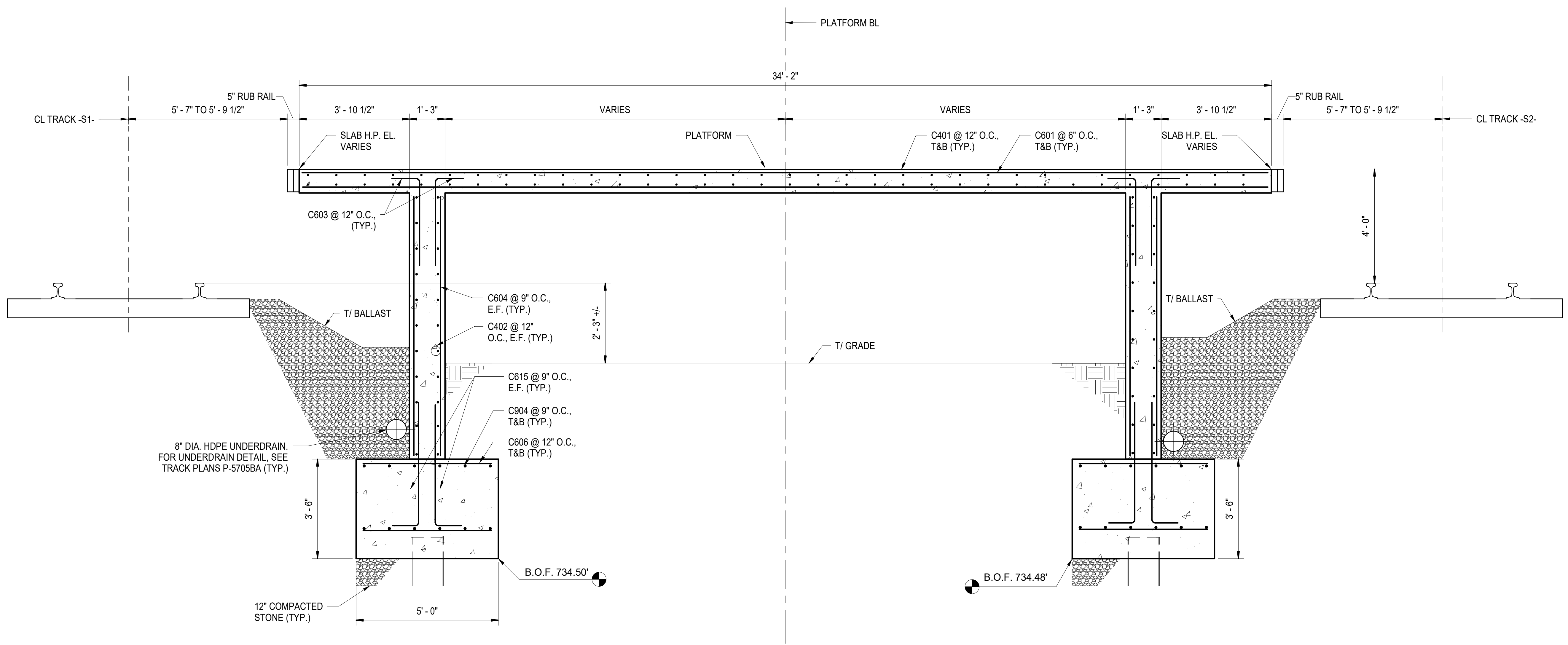
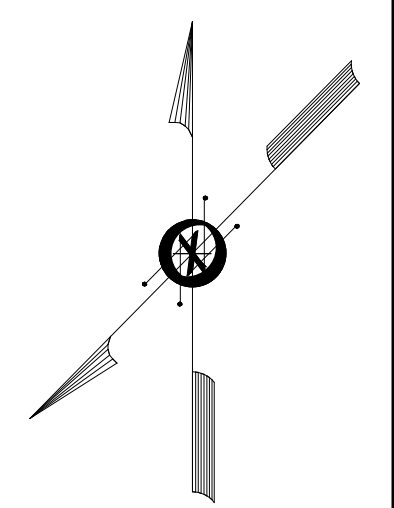


1
S-302 PLATFORM TYPICAL SECTION AT STA. 20+96
 SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH PLATFORM SECTION - STA. 20+96		SHEET NO.	
				S-302	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS		TOTAL SHEETS	
		NO. BY DATE NO. BY DATE 1 3 2 4		98	
DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>		DWG. NO. 30			





1
S-303

TYPICAL PLATFORM SECTION - NORTH
OF CONCOURSE - STA 24+40

SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



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SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

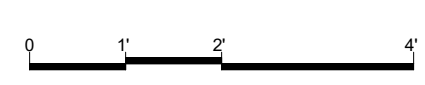
PLATFORM SECTION - STA.
24+40

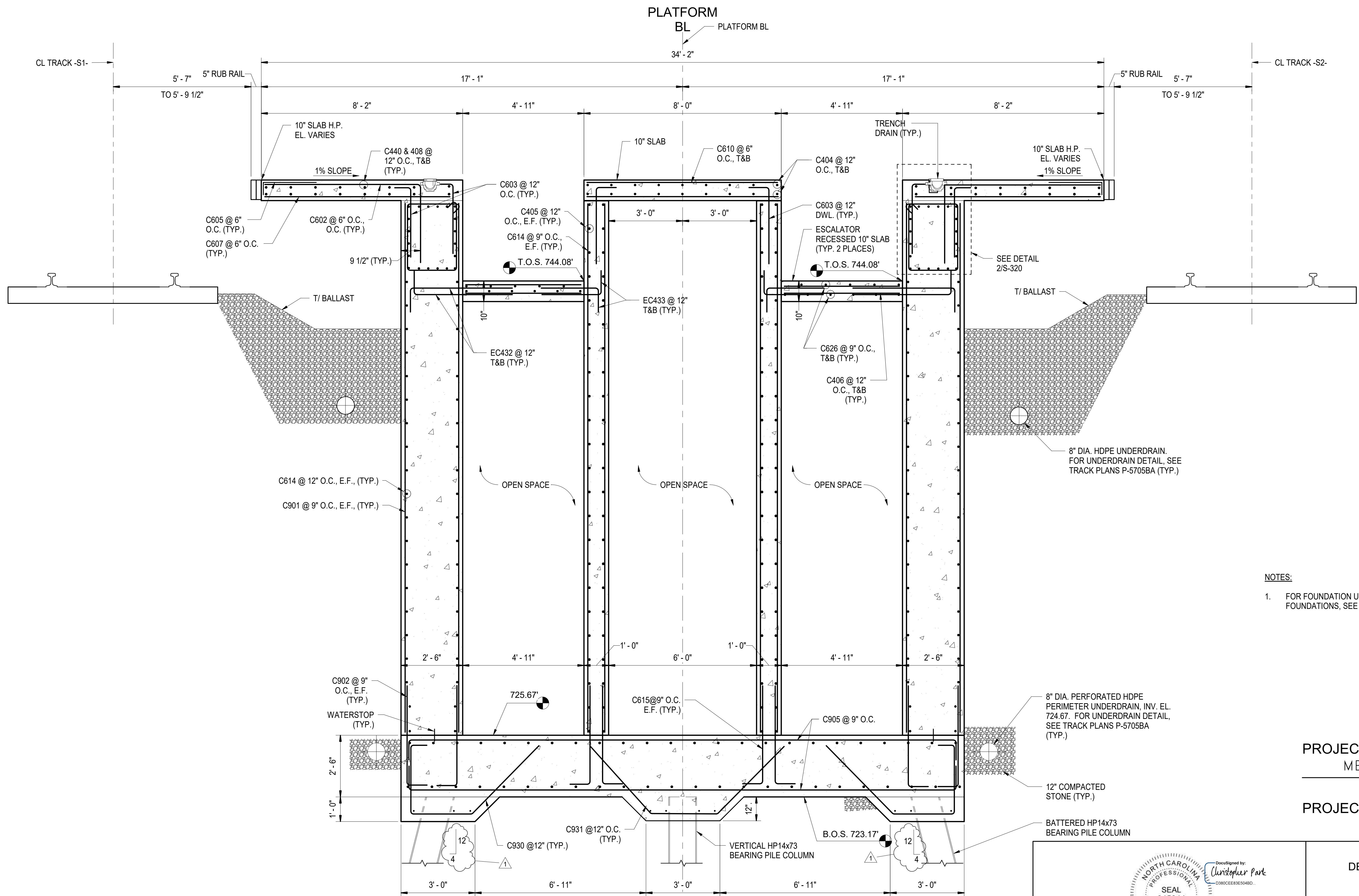
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NC License No. C-1554
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: Author DATE: 03/22/18
CHECKED BY: Checker DATE: 03/22/18

DWG. NO. 31

REVISIONS						SHEET NO. S-303
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

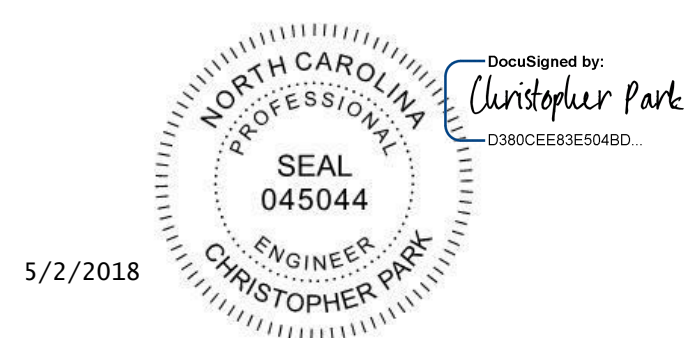




- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

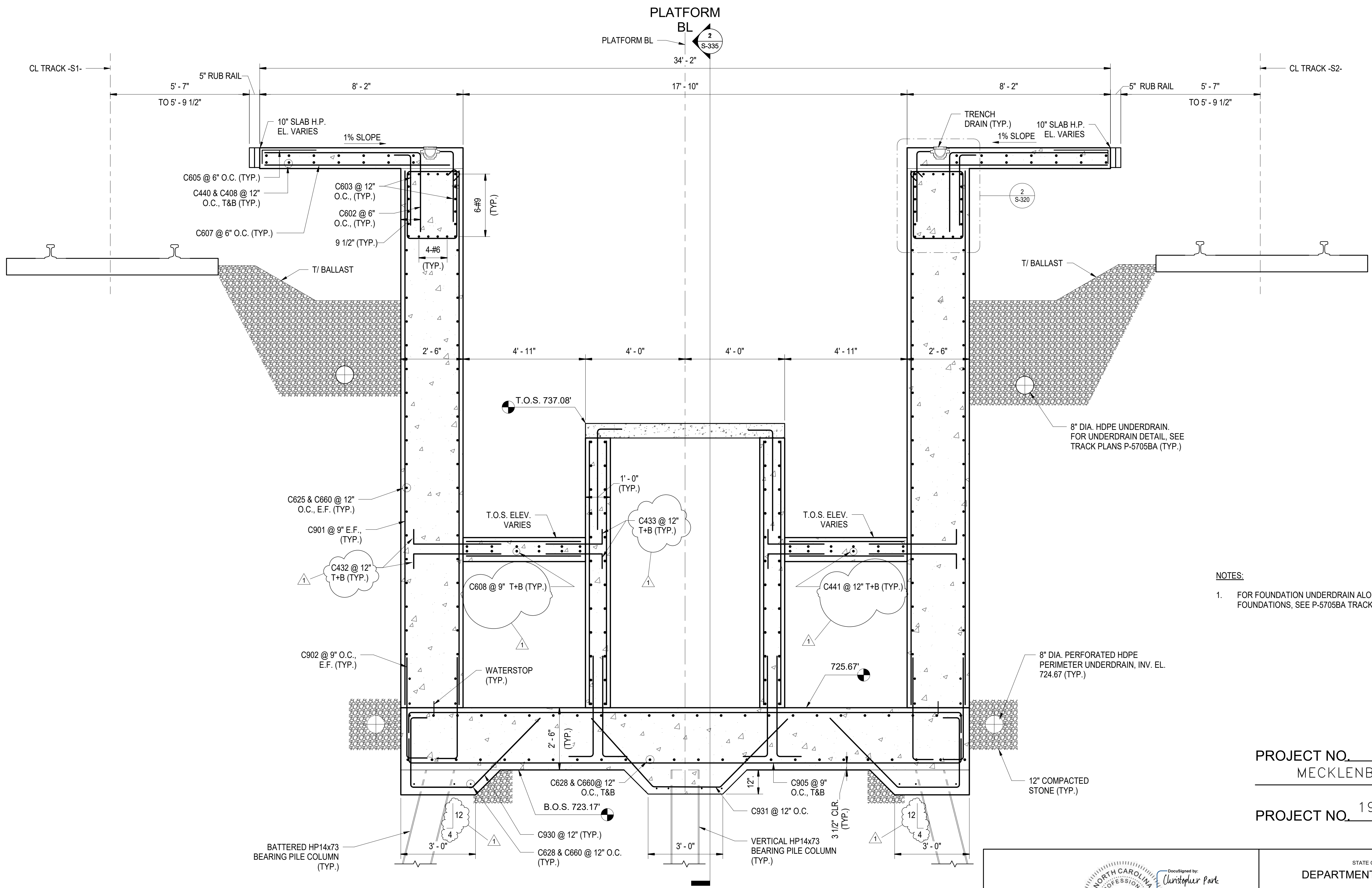
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S-304 SCALE: 1/2" = 1'-0"
PLATFORM SECTION - STA. 24+50 - AT UPPER ESCALATOR PIT



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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 CONCOURSE SECTION - STA. 24+50

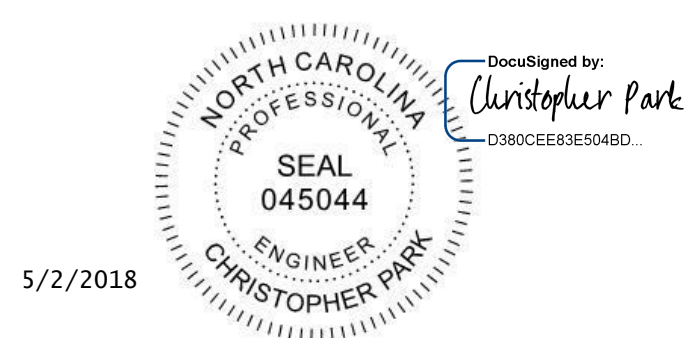
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NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS 98
1	CP	5/2/18	3			
2			4			



- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

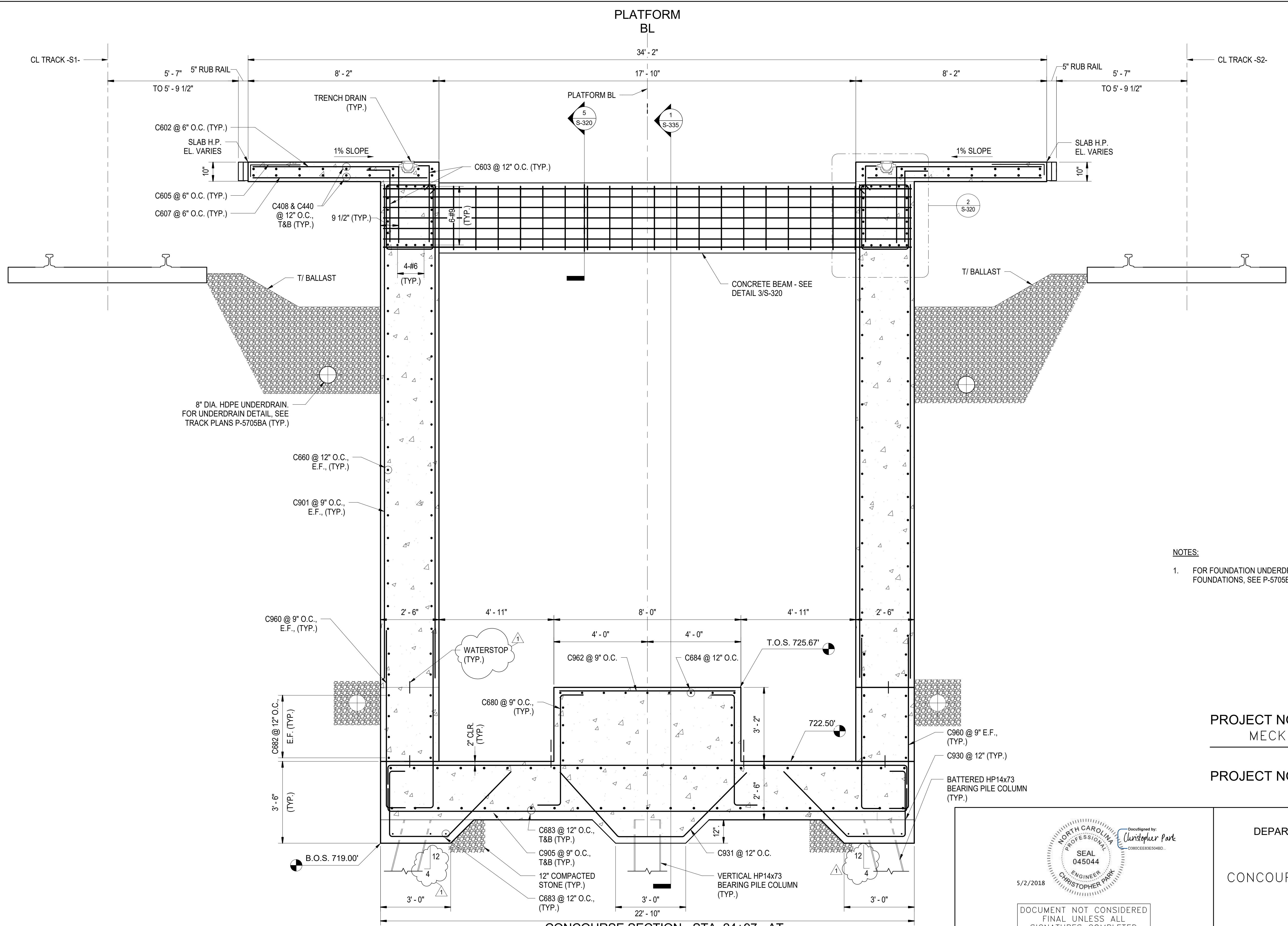
CONCOURSE SECTION STA. 24+75 AT
 STAIR LANDING
 1 S-305 SCALE: 1/2" = 1'-0"



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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 CONCOURSE SECTION - STA.
 24+75

HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		DWG. NO. 33		<table border="1"> <thead> <tr> <th colspan="6">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CP</td> <td>5/2/18</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>			REVISIONS						NO.	BY	DATE	NO.	BY	DATE	1	CP	5/2/18	3			2			4			SHEET NO. S-305 TOTAL SHEETS 98
REVISIONS																															
NO.	BY	DATE	NO.	BY	DATE																										
1	CP	5/2/18	3																												
2			4																												
DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK	DATE: 3/27/2018 DATE: 3/27/2018																														



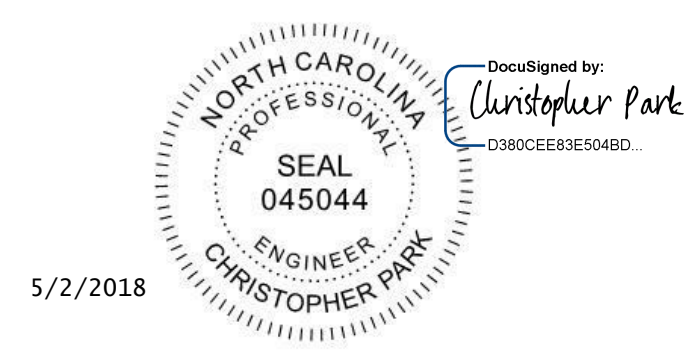
- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

CONCOURSE SECTION - STA. 24+97 - AT LOWER ESCALATOR PIT

1
S-306

SCALE: 1/2" = 1'-0"

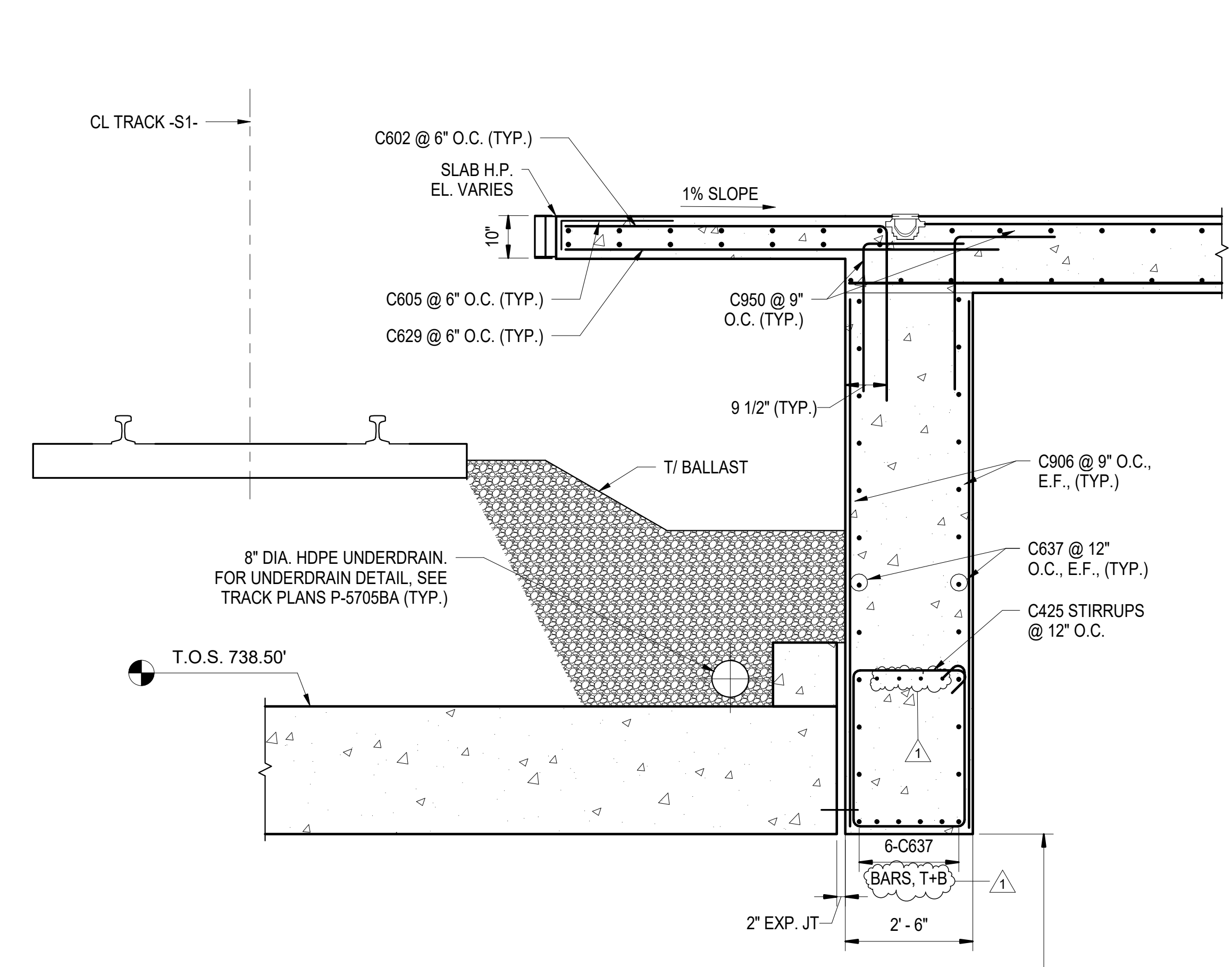
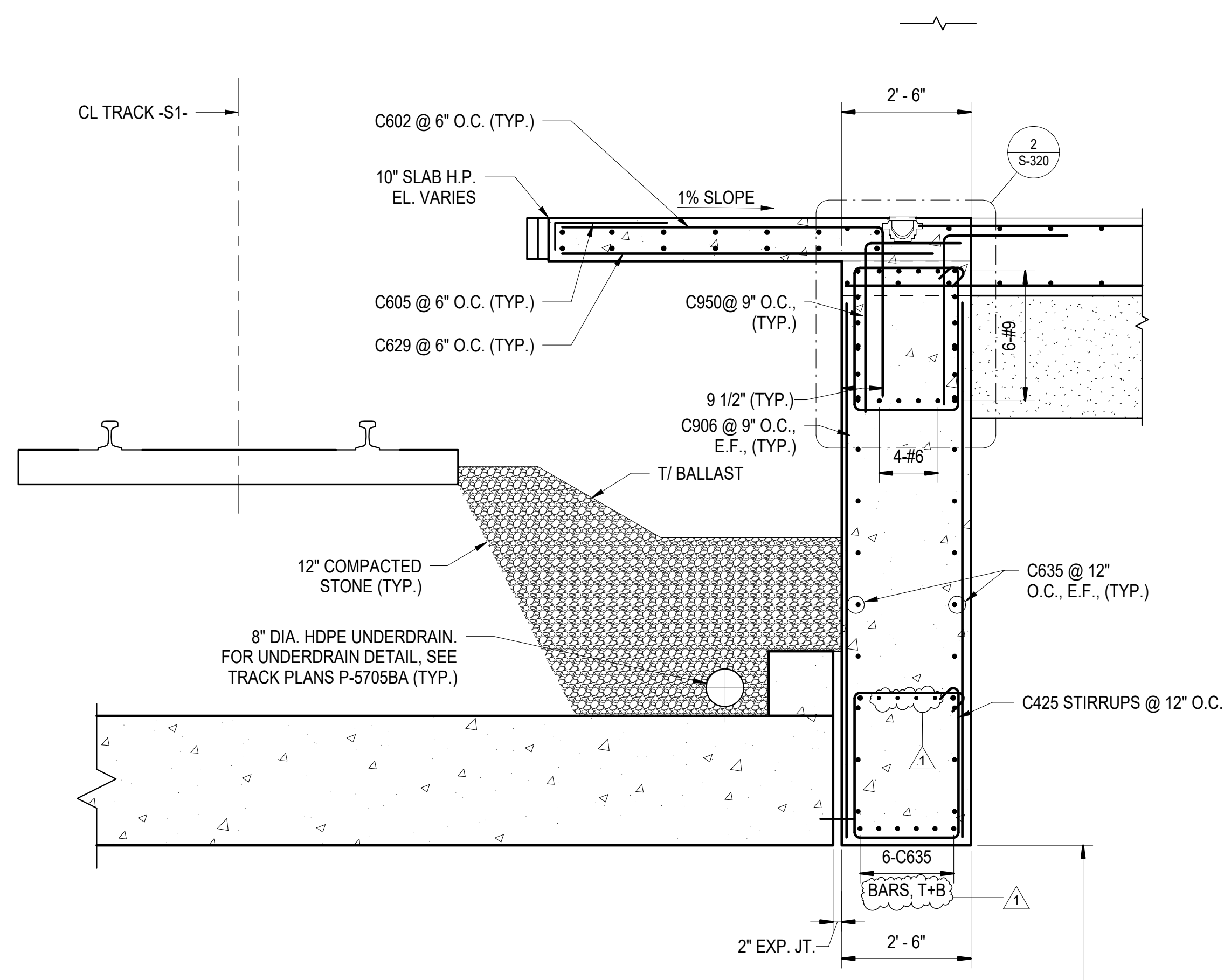


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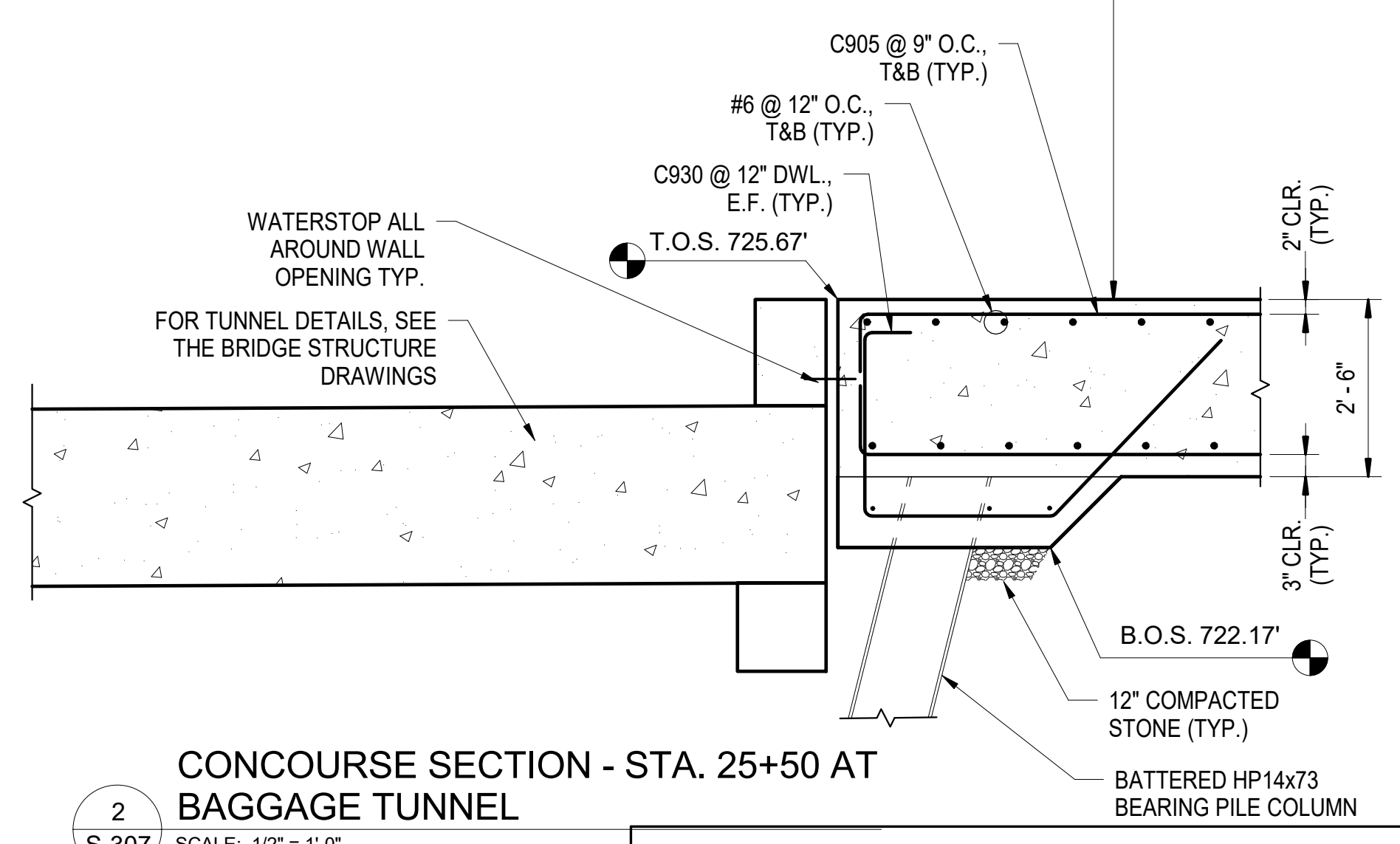
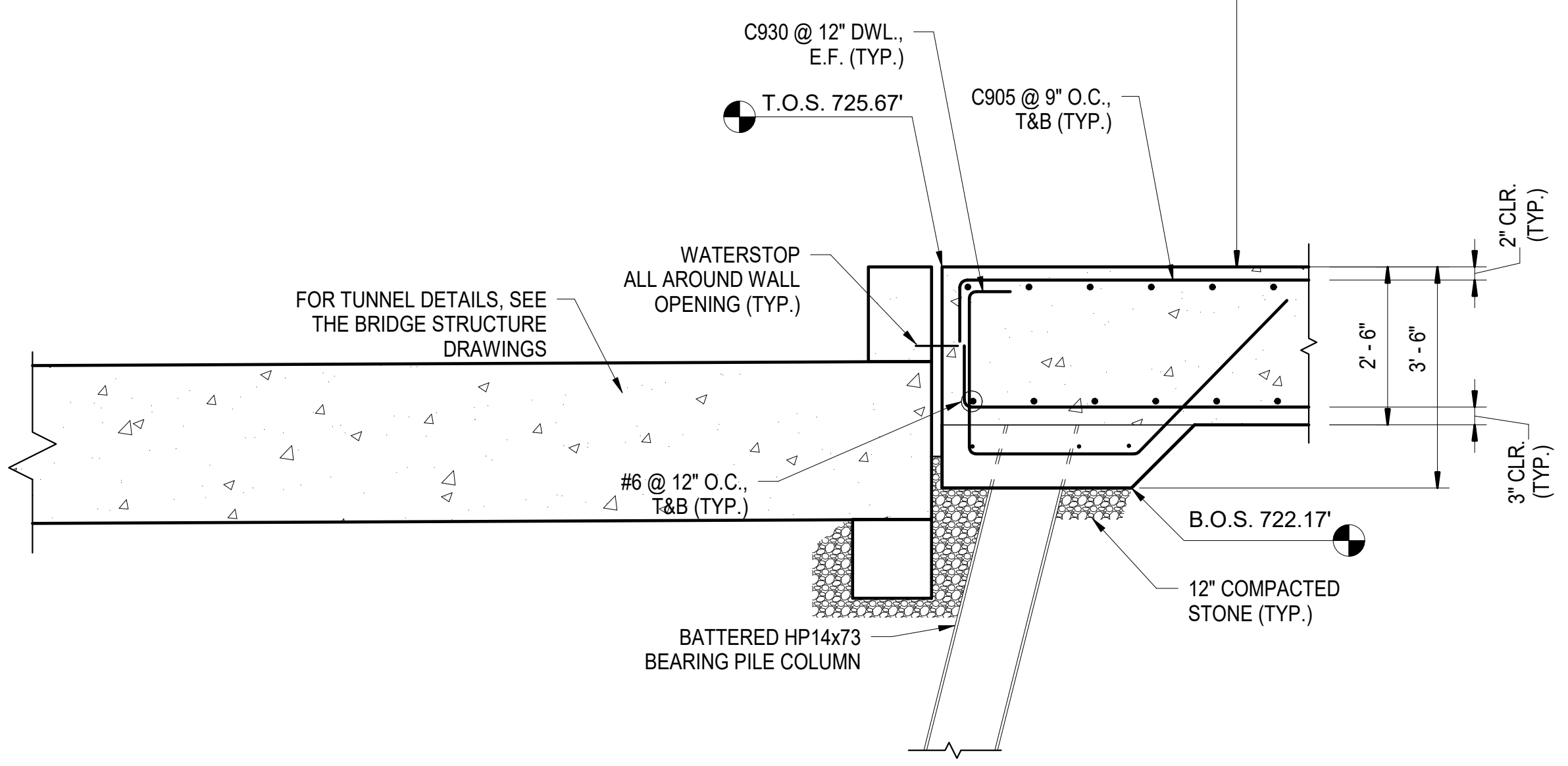
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 CONCOURSE SECTION - STA. 24+97

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 DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
 CHECKED BY: C. PARK DATE: 3/27/2018 DWG. NO. 34

REVISIONS						SHEET NO. S-306
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.



1
S-307
CONCOURSE SECTION - STA. 25+15 AT
PEDESTRIAN TUNNEL
SCALE: 1/2" = 1'-0"

2
S-307
CONCOURSE SECTION - STA. 25+50 AT
BAGGAGE TUNNEL
SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

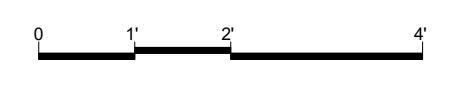


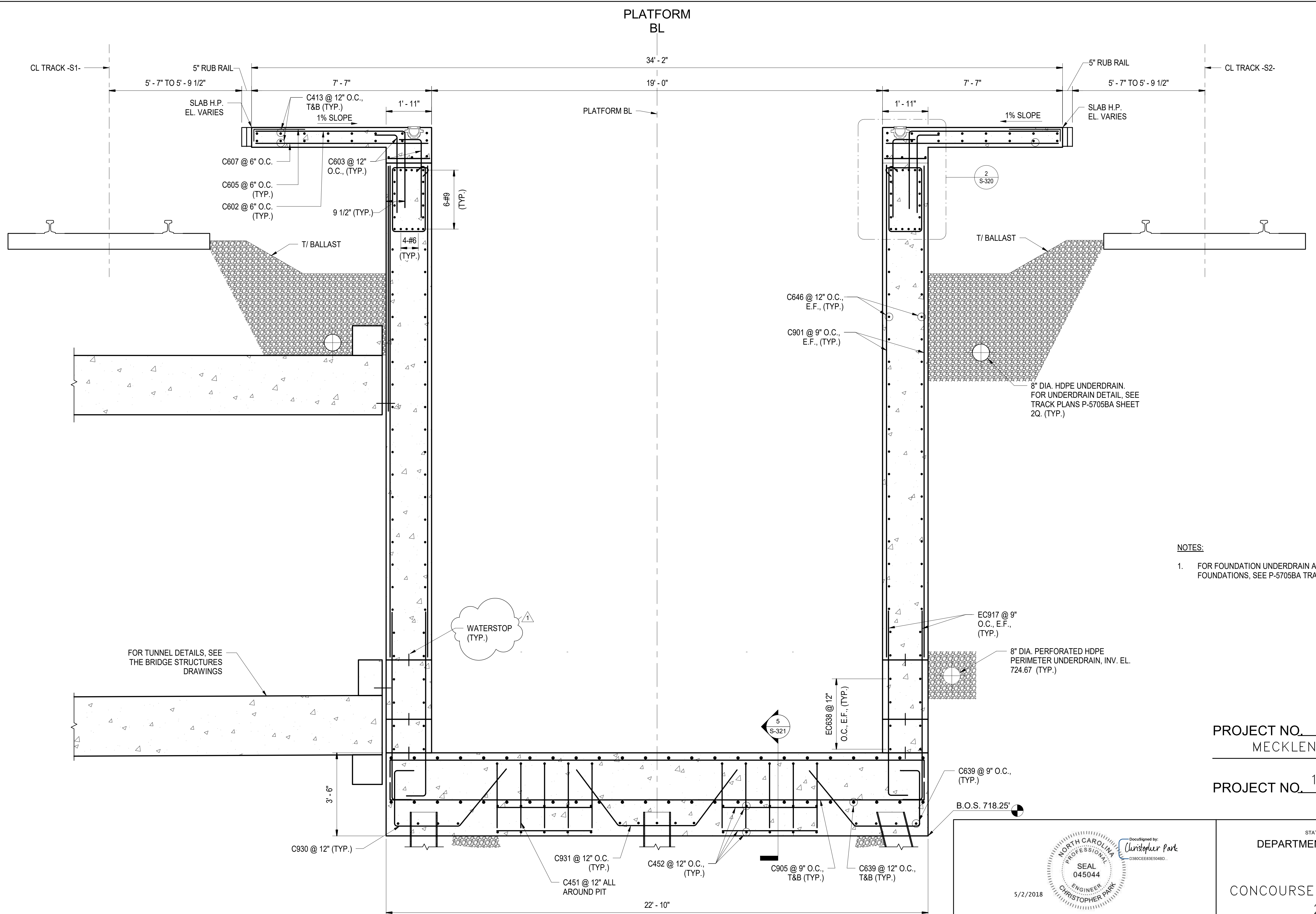
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FINAL UNLESS ALL
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
CONCOURSE SECTION - STA.
25+15, STA. 25+50

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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 35

REVISIONS						SHEET NO. S-307
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

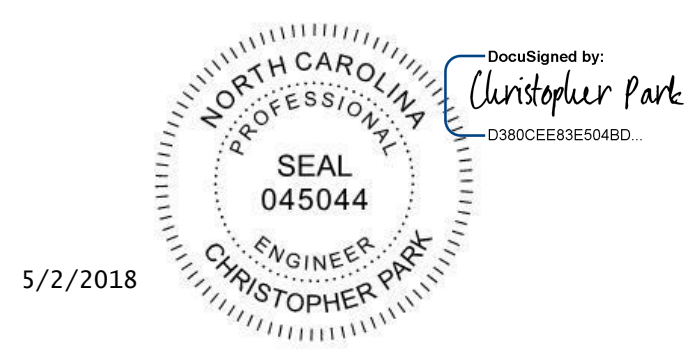




- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 CONCOURSE SECTION - STA.
 25+35

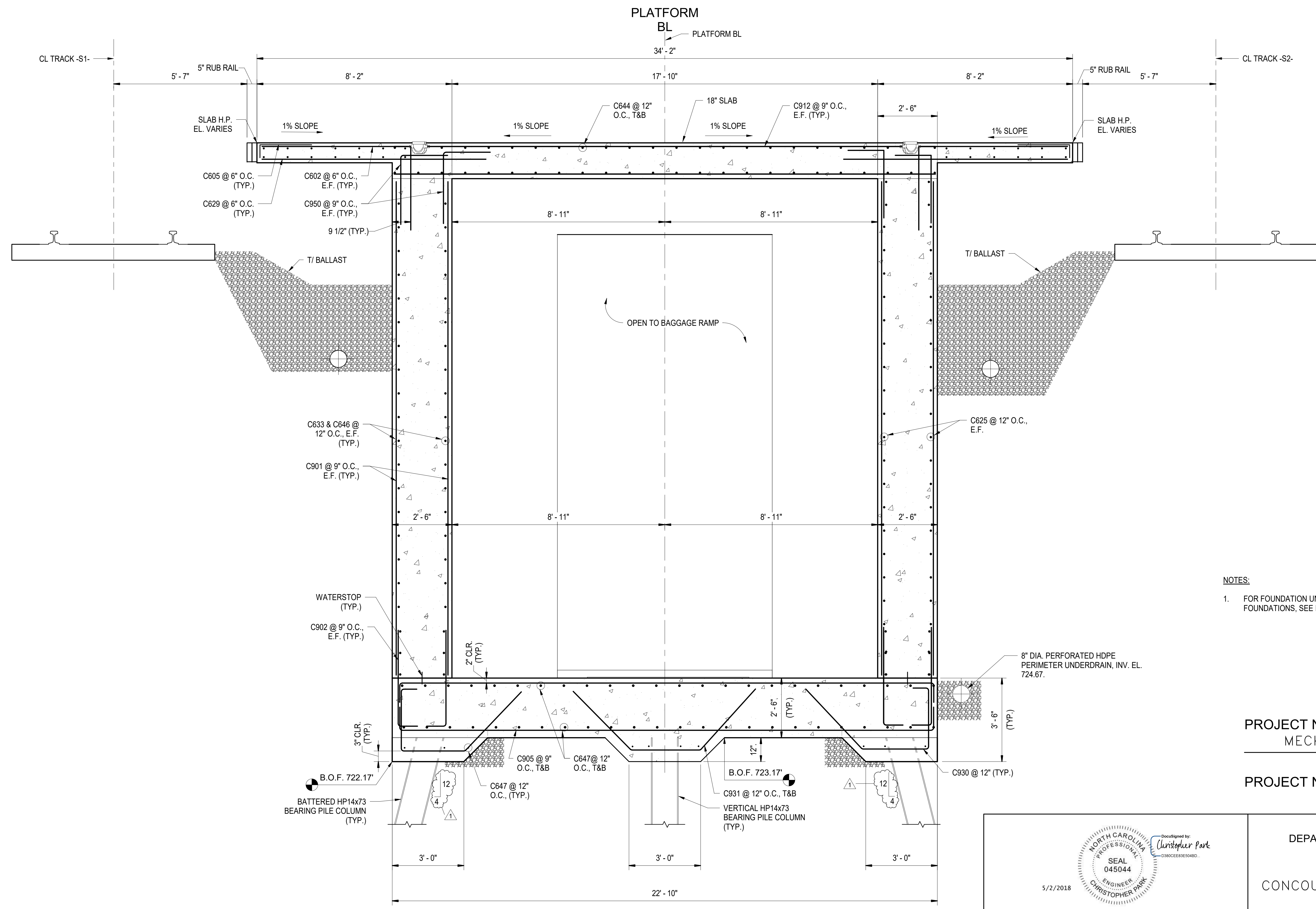


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**CONCOURSE SECTION - STA. 25+35 AT
 ELEVATOR PIT**
 SCALE: 1/2" = 1'-0"

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 DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 36

REVISIONS						SHEET NO. S-308
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

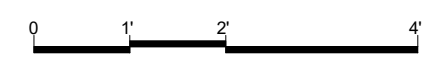
PROJECT NO. P-5705BB
 MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-



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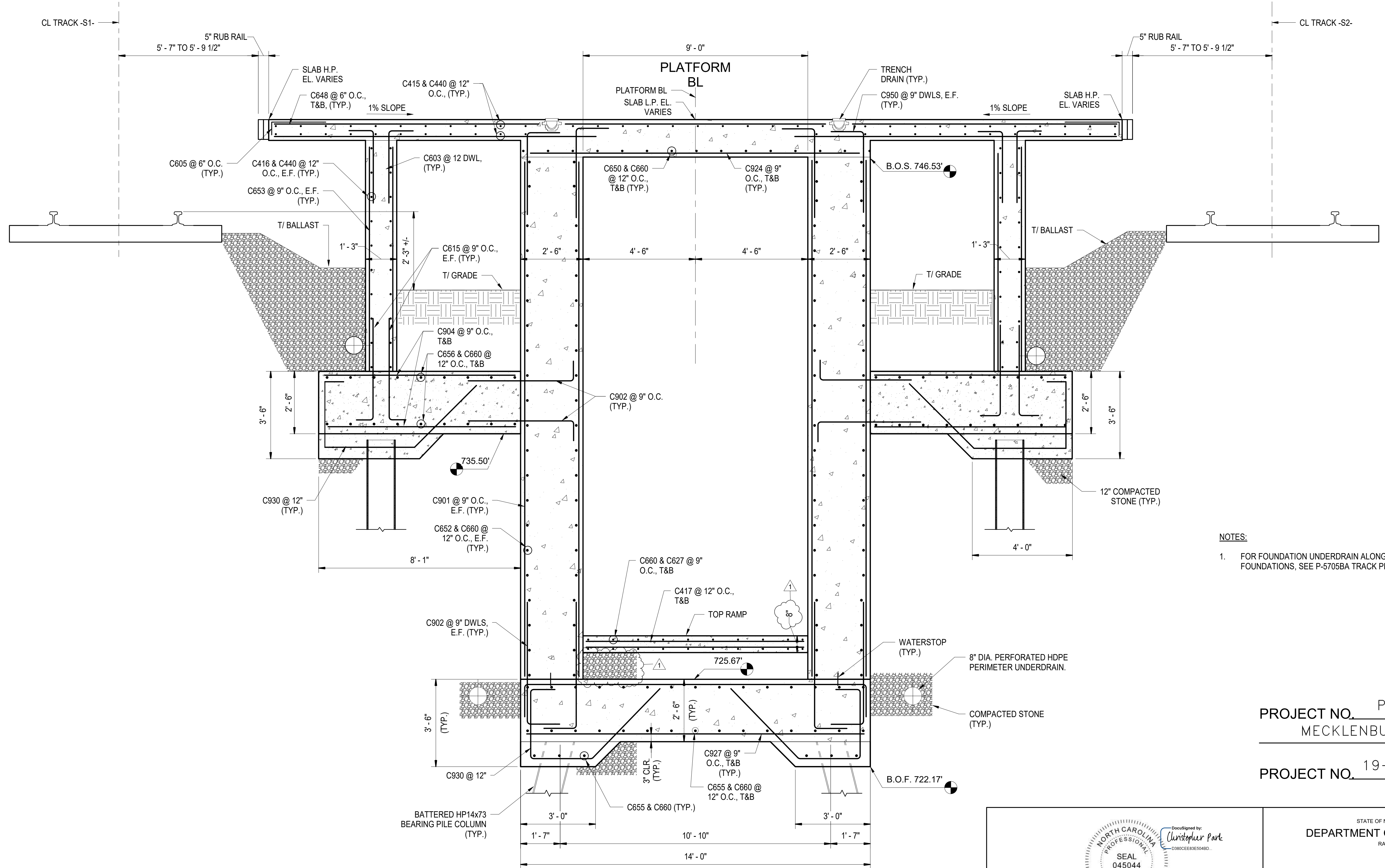
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 CONCOURSE SECTION - STA. 25+55

1 CONOURSE SECTION STA. 25+55
 S-309 SCALE: 1/2" = 1'-0"



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 CHECKED BY: C. PARK DATE: 3/27/2018
 DWG. NO. 37

REVISIONS						SHEET NO. S-309
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

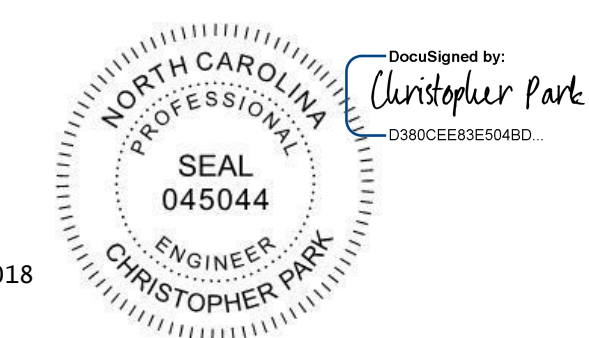
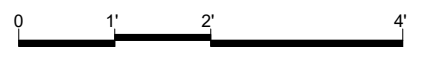


- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

CONCOURSE SECTION - STA. 25+70 AT BAGGAGE RAMP

1
S-310 SCALE: 1/2" = 1'-0"



5/2/2018

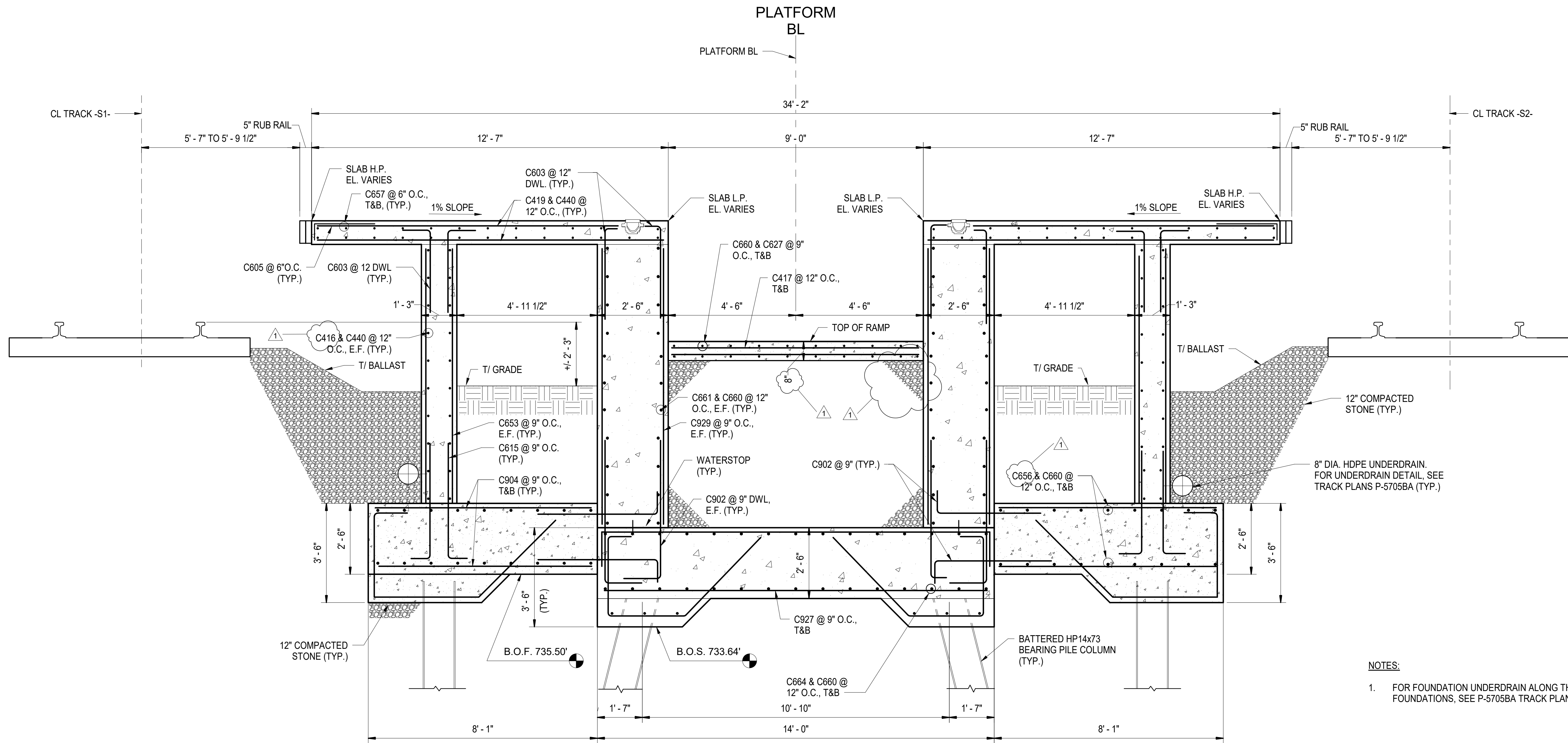
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 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 38

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

BAGGAGE RAMP SECTION - STA. 25+70

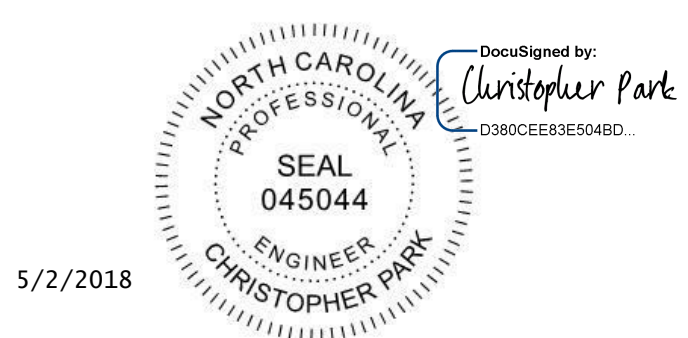
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NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

CONCOURSE SECTION - STA. 27+10 AT BAGGAGE RAMP
1 S-311 SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

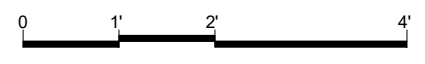


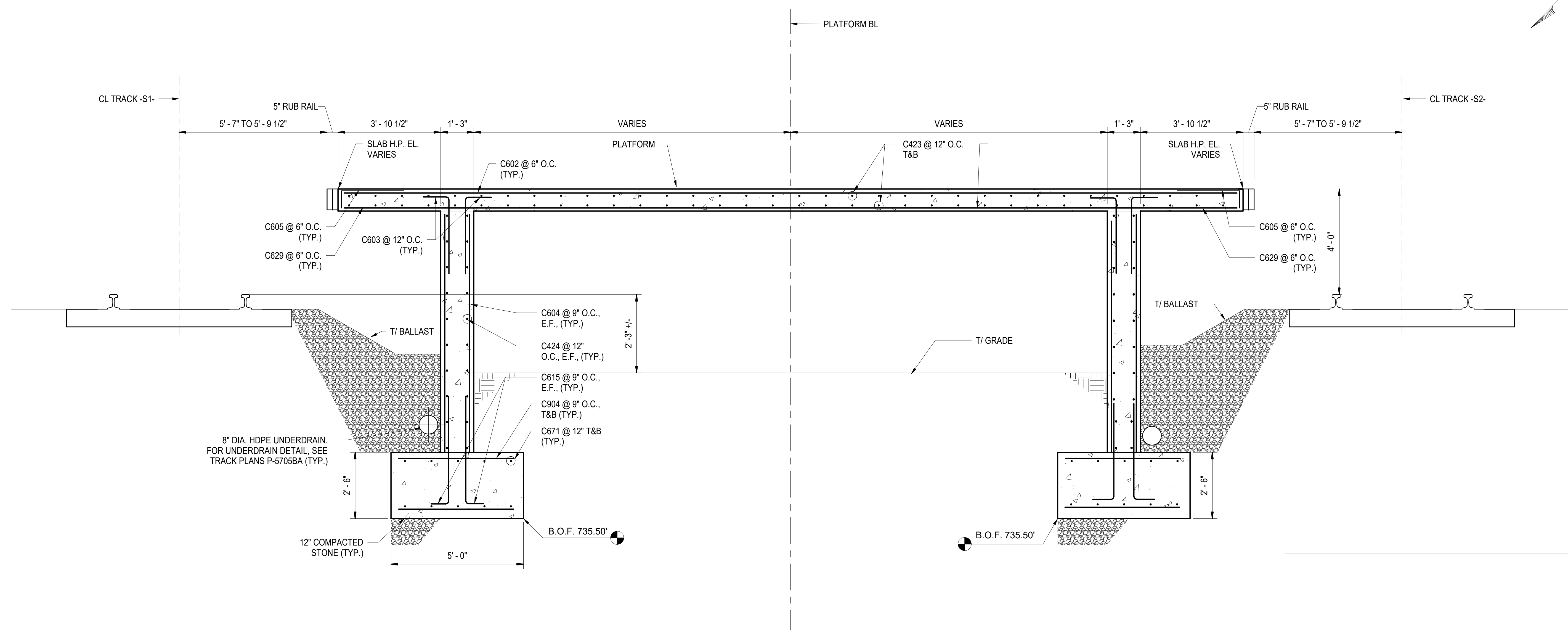
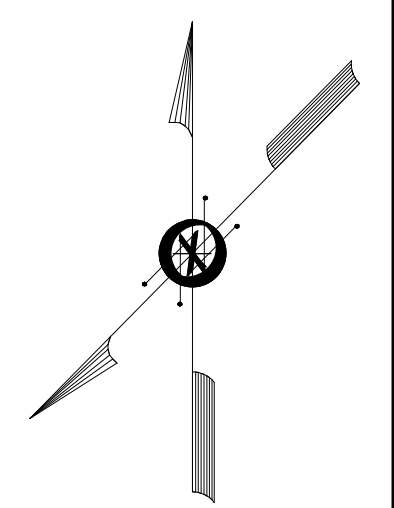
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
BAGGAGE RAMP SECTION - STA. 27+10

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DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018 DWG. NO. 39

REVISIONS						SHEET NO. S-311
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			





1
S-312

**PLATFORM SECTION - SOUTH OF
BAGGAGE RAMP - STA 27+45**

SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

4/5/2018

DOCUMENT NOT CONSIDERED
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DEPARTMENT OF TRANSPORTATION
RALEIGH

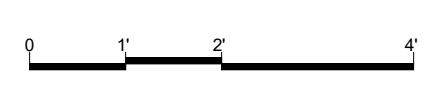
**PLATFORM SECTION - STA.
27+45**

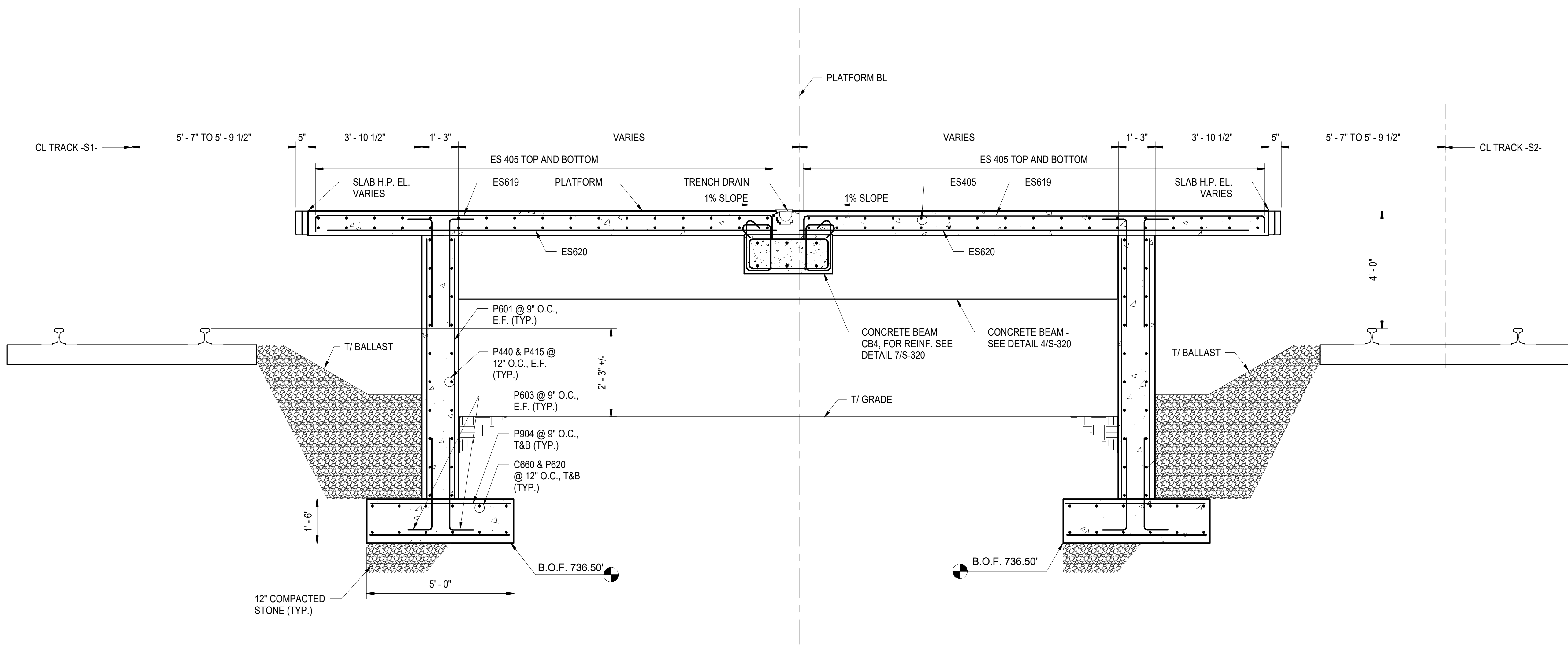
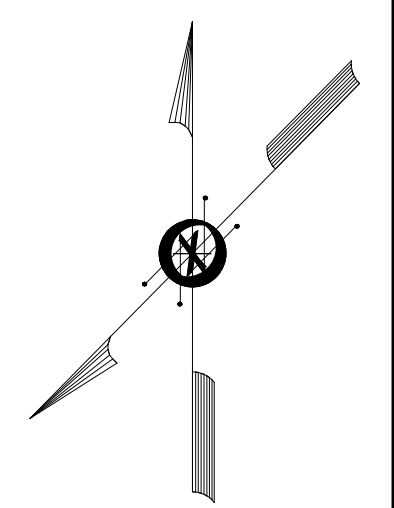
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
1		03/22/18	3			98
2		03/22/18	4			

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NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DWG. NO. 40

TOTAL SHEETS
98





1
S-313

TYPICAL SOUTH PLATFORM SECTION - STA 29+00

SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018

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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

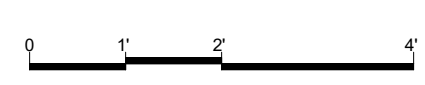
PLATFORM SECTION - STA.
 29+00

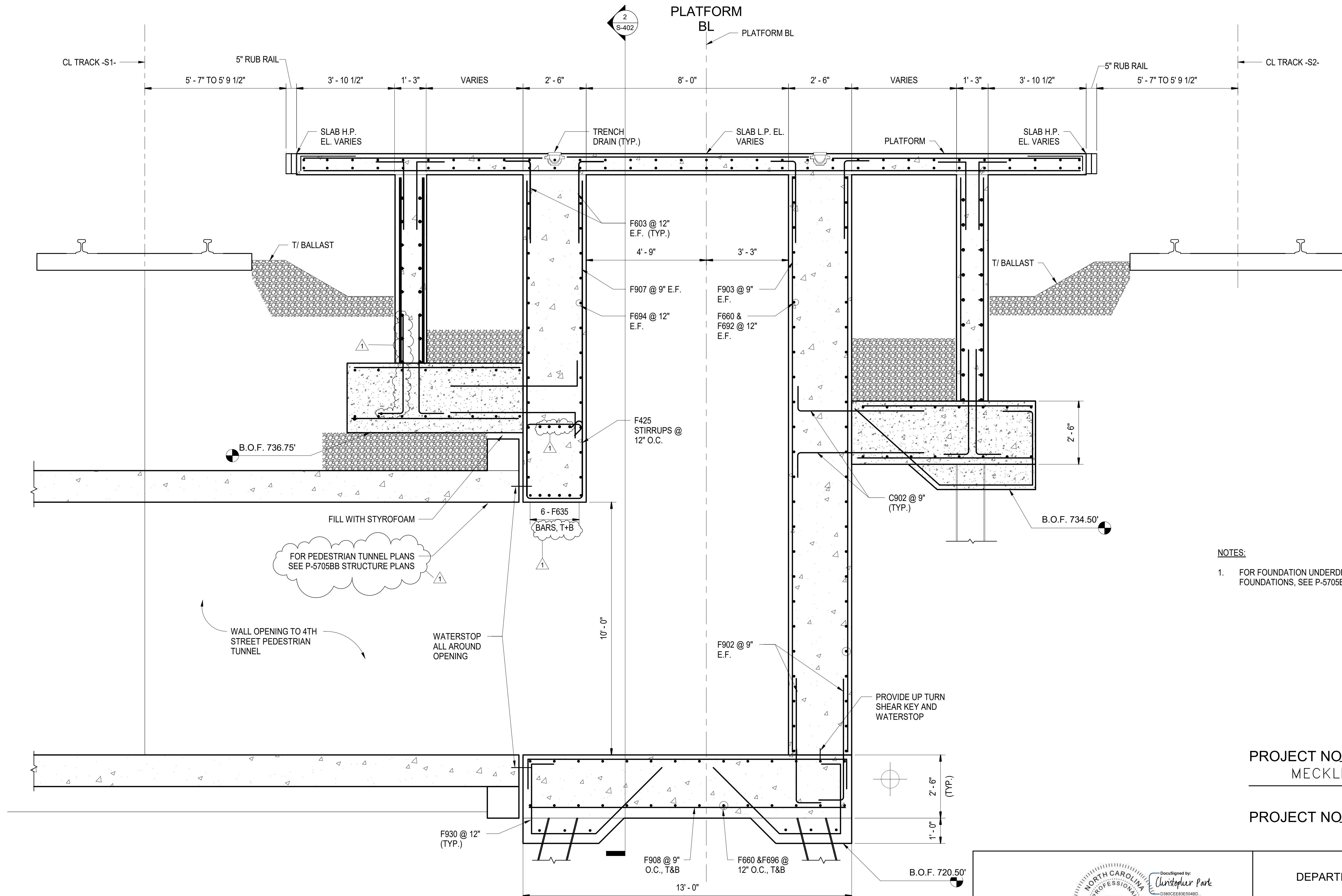
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
1		03/22/18	3			98
2		03/22/18	4			

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DWG. NO. 41

TOTAL SHEETS: 98



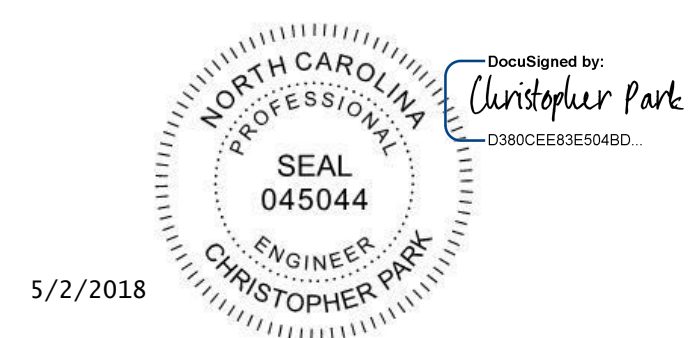


- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

4TH STREET EGRESS STAIR SECTION AT STA. 29+35

1
S-314 SCALE: 1/2" = 1'-0"

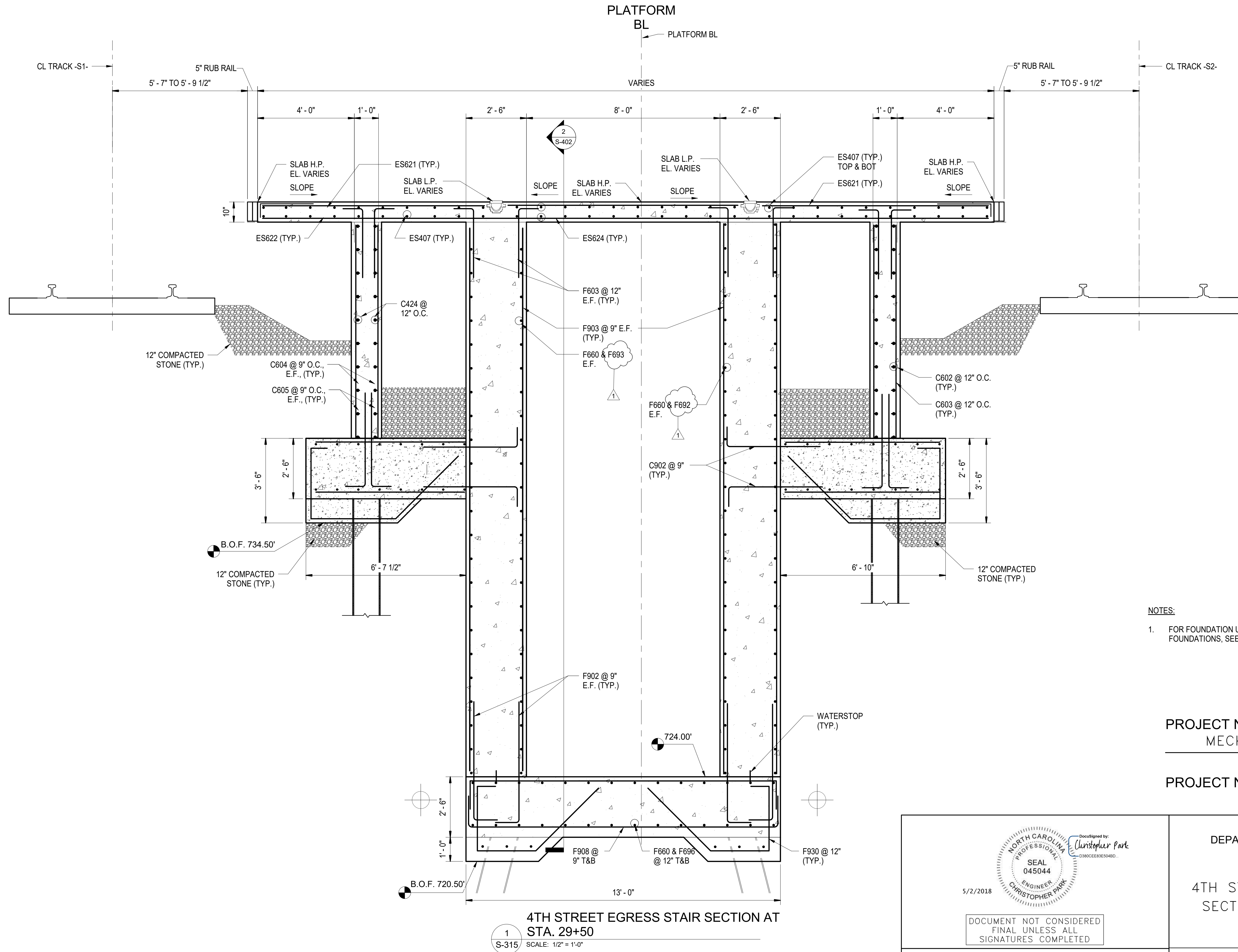


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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 4TH STREET EGRESS STAIR SECTION - STA. 29+35

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 NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609
 DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 42

REVISIONS						SHEET NO. S-314
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



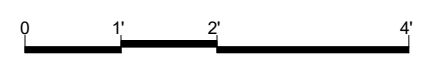
- NOTES:**
- FOR FOUNDATION UNDERDRAIN ALONG THE PLATFORM FOUNDATIONS, SEE P-5705BA TRACK PLANS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4TH STREET EGRESS STAIR SECTION AT STA. 29+50

1
S-315 SCALE: 1/2" = 1'-0"



5/2/2018

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045044 CHRISTOPHER PARK

DocuSigned by: Christopher Park

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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

4TH STREET EGRESS STAIR SECTION - STA. 29+50

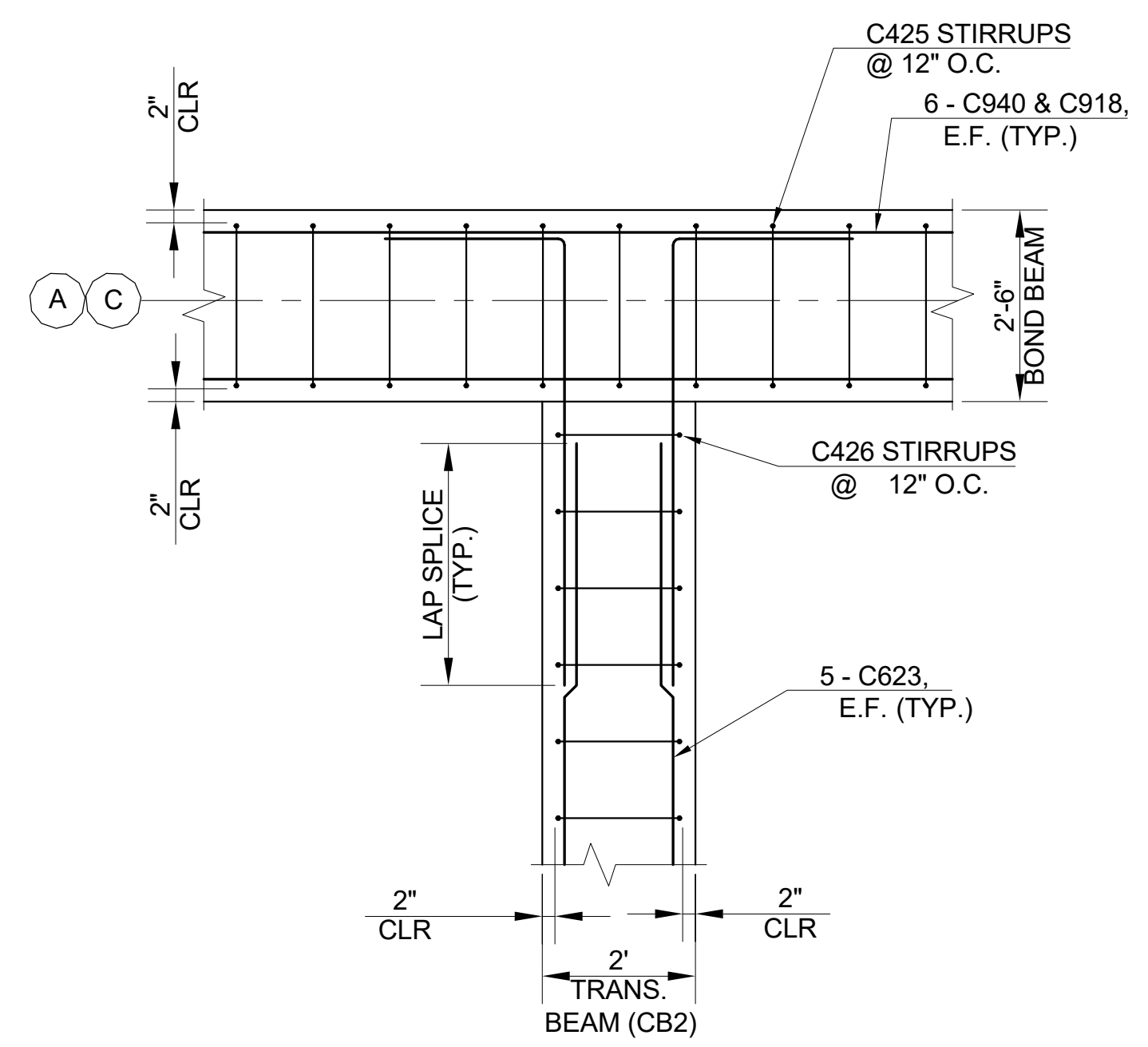
HNTB HNTB NORTH CAROLINA, P.C.
 NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
 CHECKED BY: C. PARK DATE: 3/27/2018

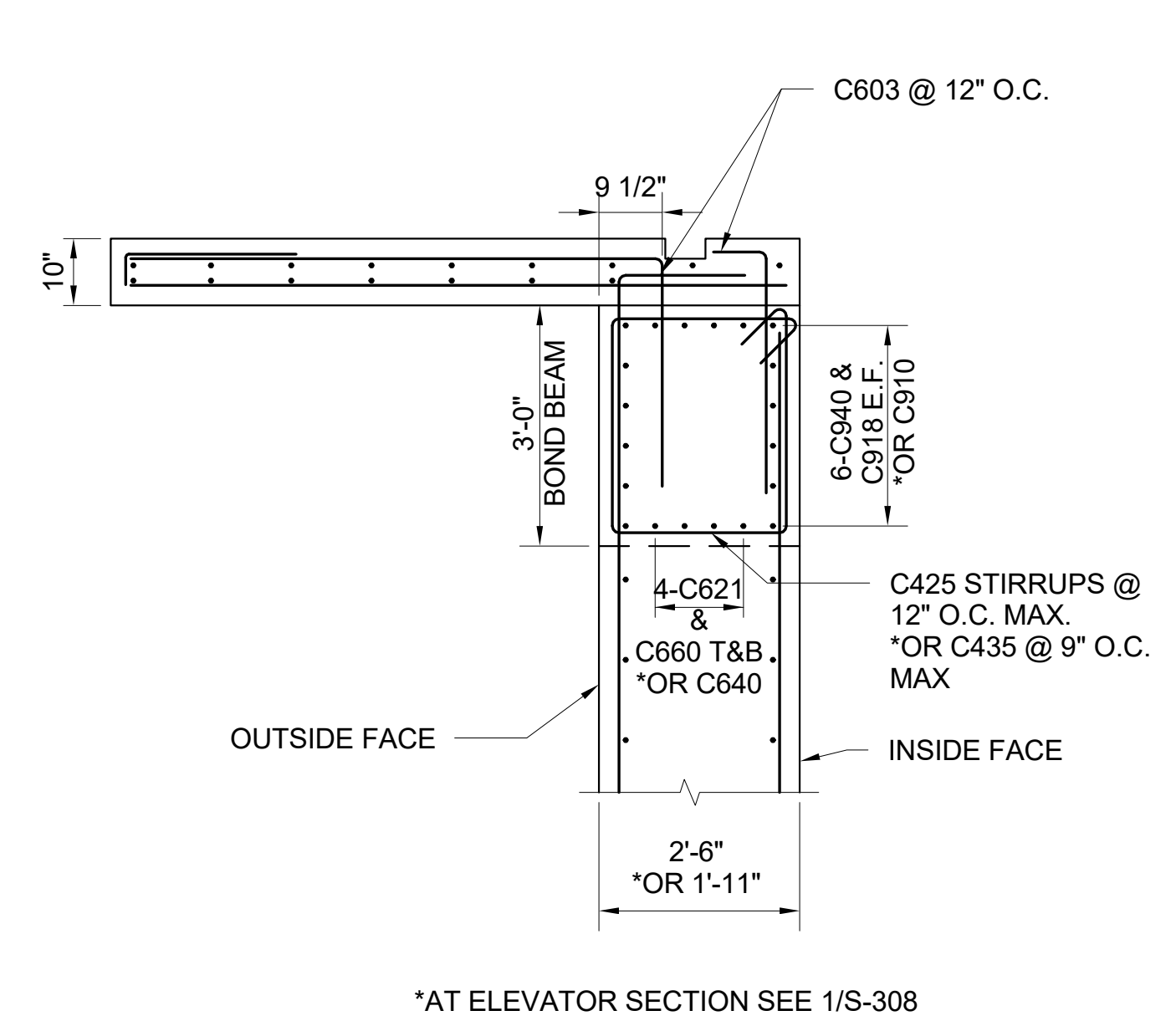
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2			4			

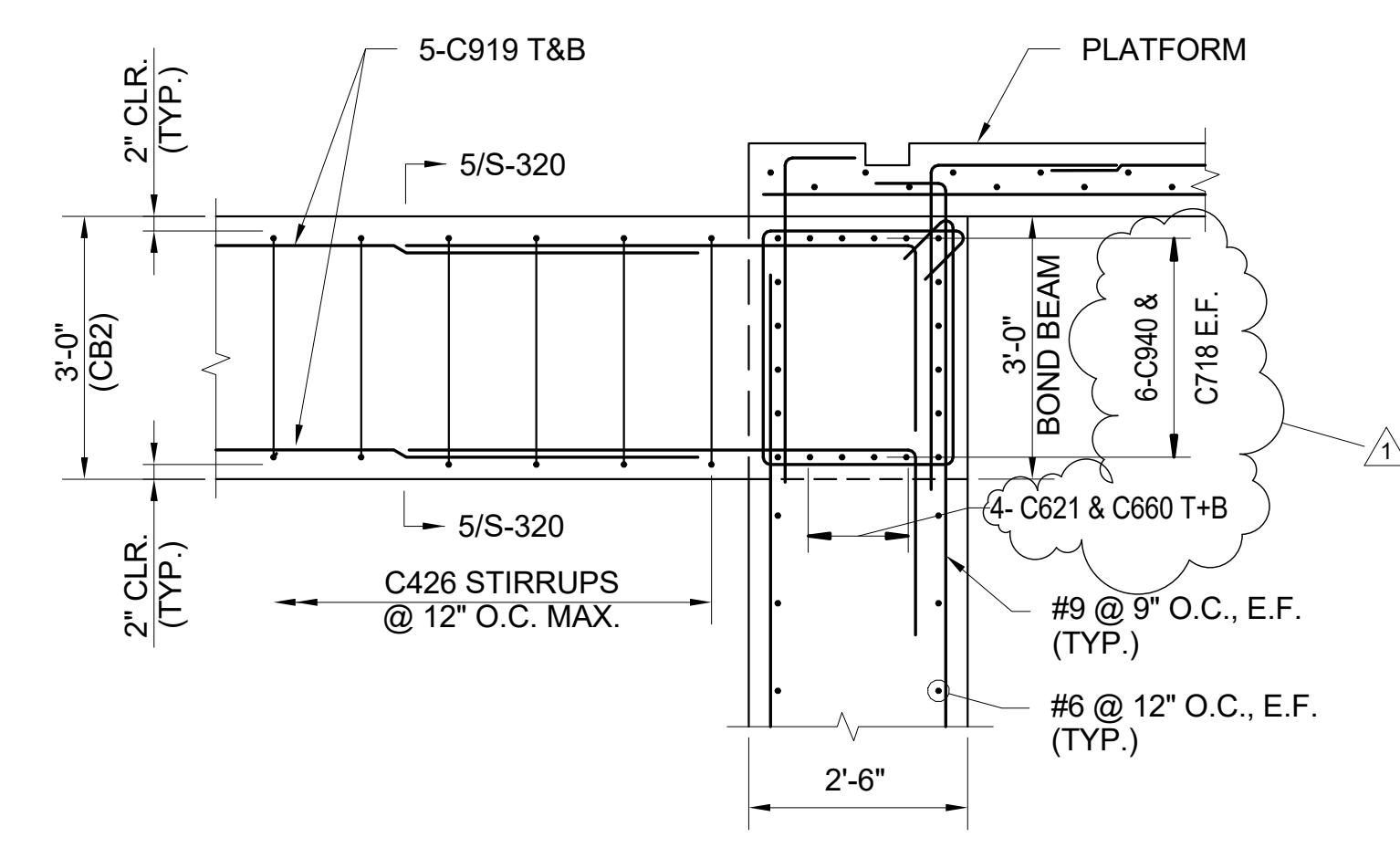
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1001ADD_P28



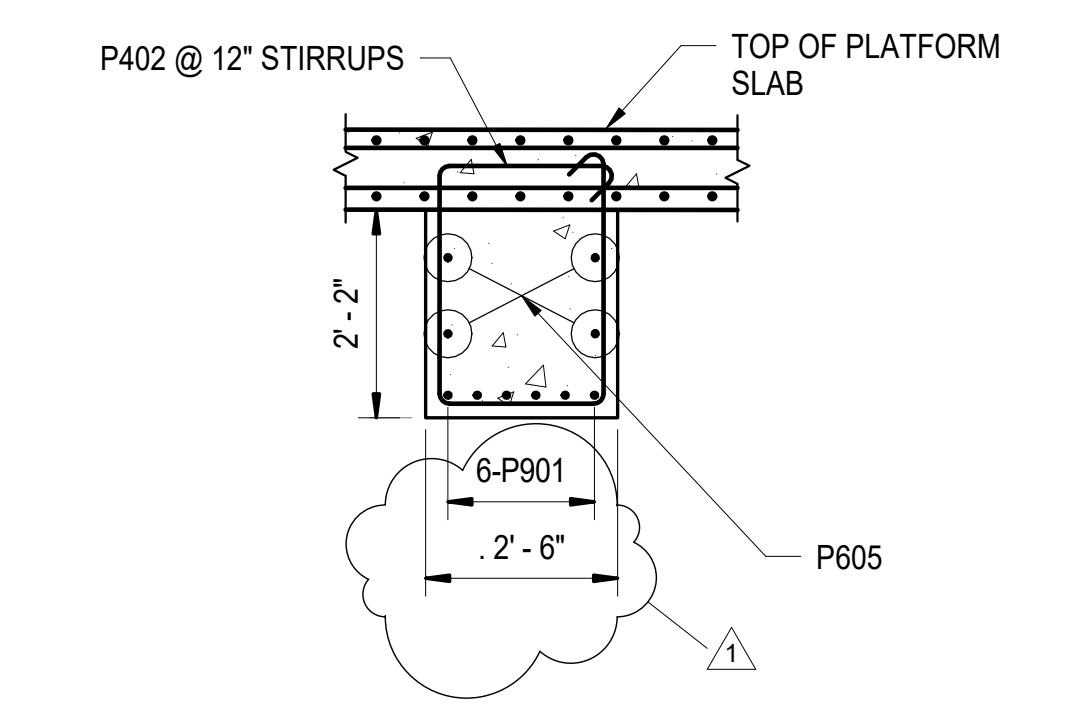
1 CONCRETE SECTION 1
S-320 SCALE: 1/2" = 1'-0"



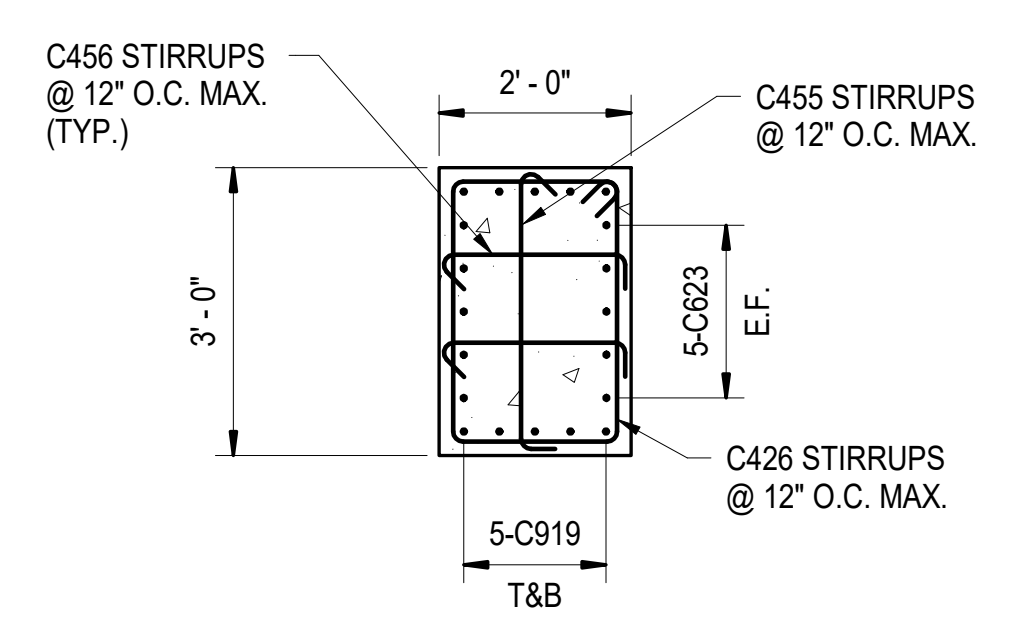
2 CONCRETE SECTION 2
S-320 SCALE: 1/2" = 1'-0"



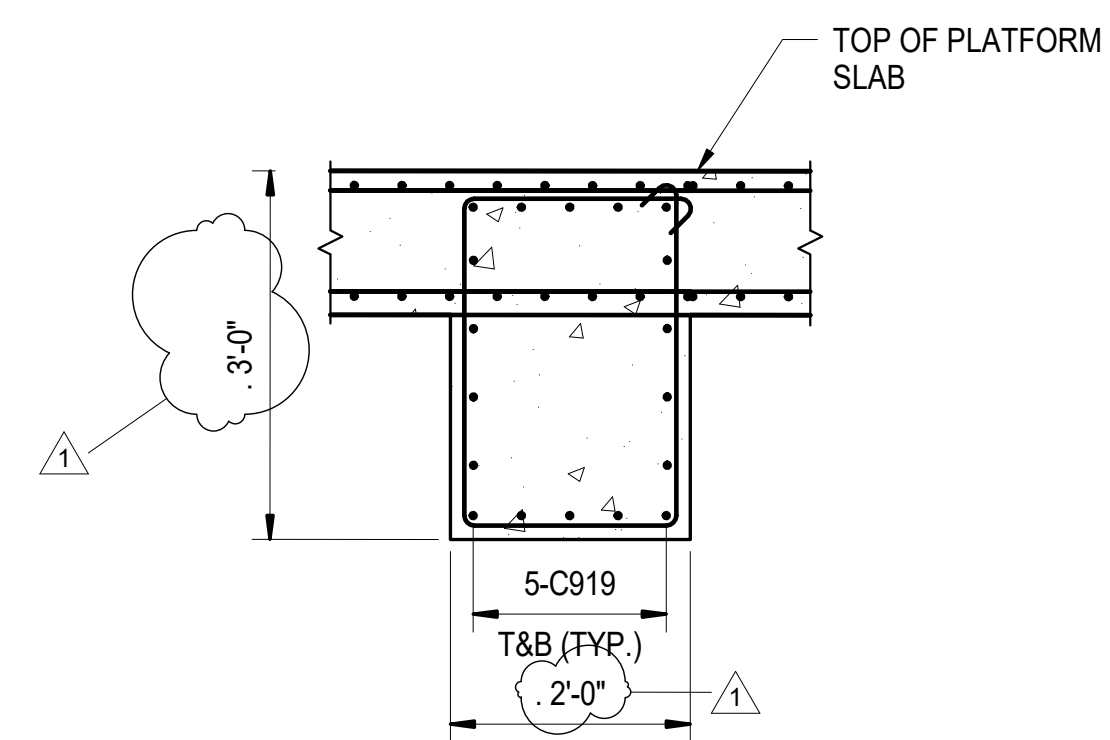
3 CONCRETE SECTION 4
S-320 SCALE: 1/2" = 1'-0"



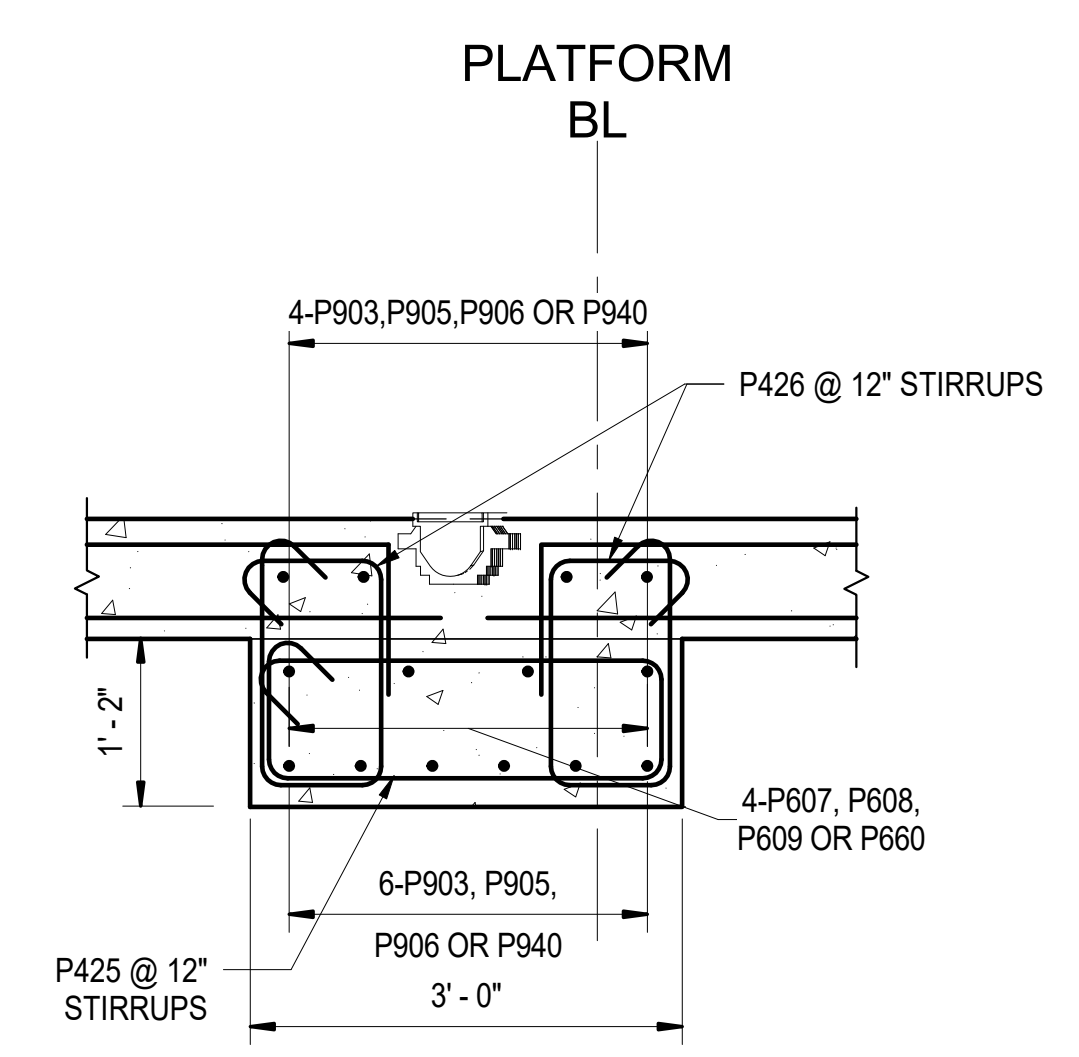
4 TRANSVERSE BEAM (CB1) AT PLATFORM
S-320 SCALE: 1/2" = 1'-0"



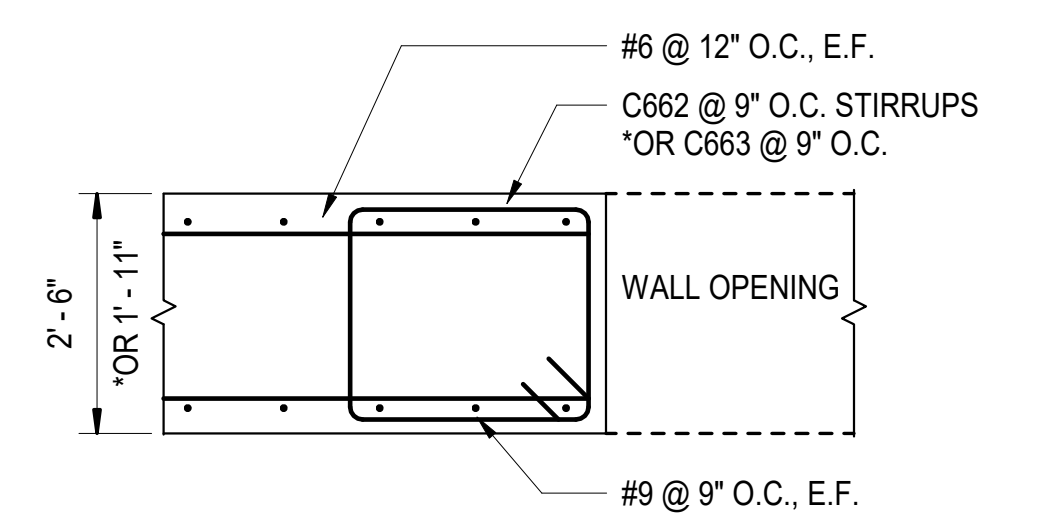
5 SECTION B-B TRANSVERSE BEAM (CB2) AT CONCOURSE
S-320 SCALE: 1/2" = 1'-0"



6 TRANSVERSE BEAM (CB3) AT CONCOURSE
S-320 SCALE: 1/2" = 1'-0"



7 LONGITUDINAL BEAM (CB4) AT PLATFORM
S-320 SCALE: 3/4" = 1'-0"



8 PILASTER AT WALL OPENINGS PLAN VIEW DETAIL
S-320 SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 4

5/2/2018

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RALEIGH

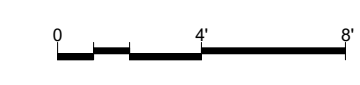
CONCRETE SECTIONS AND DETAILS

REVISIONS						SHEET NO. S-320
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

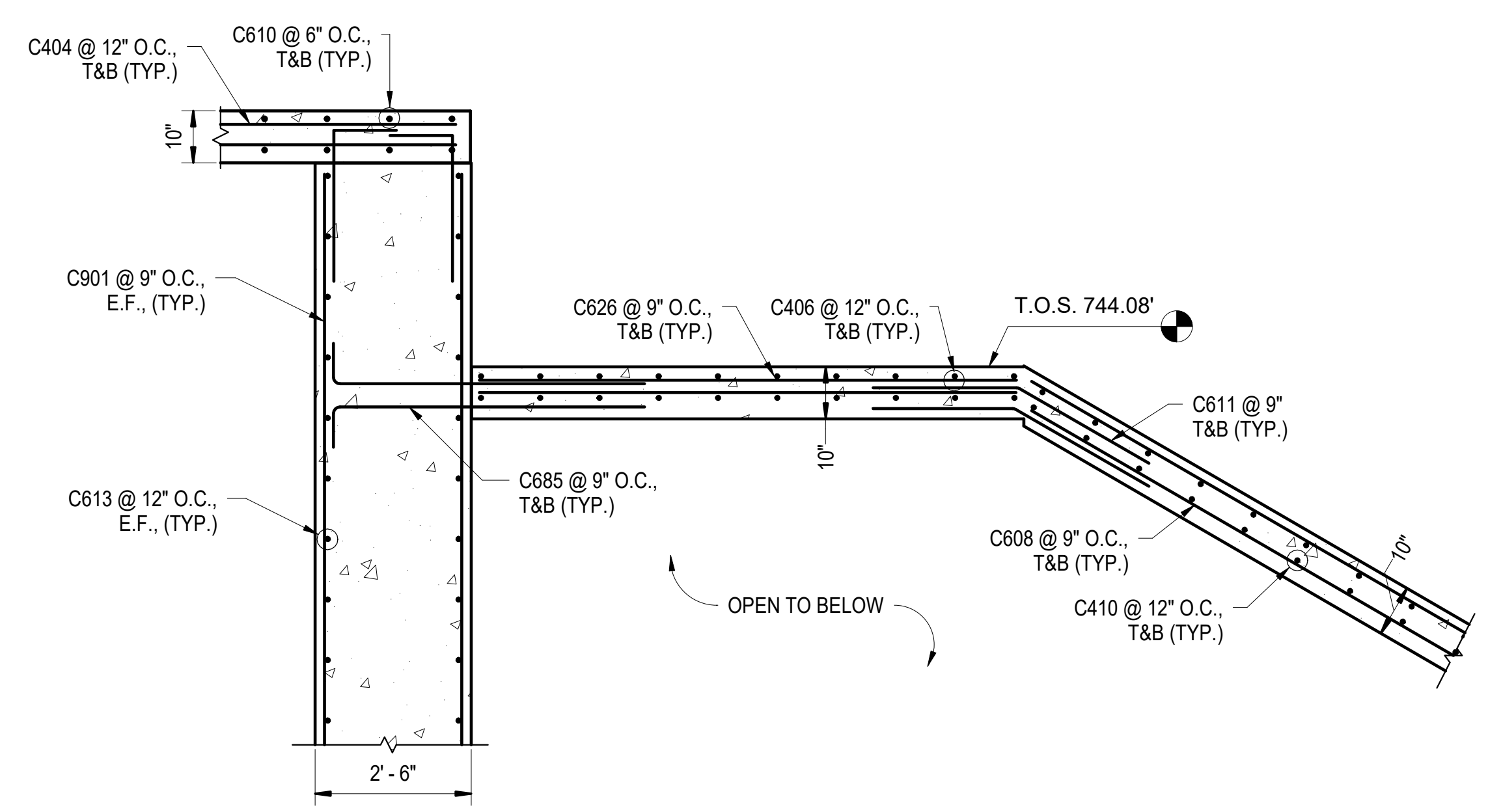
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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018

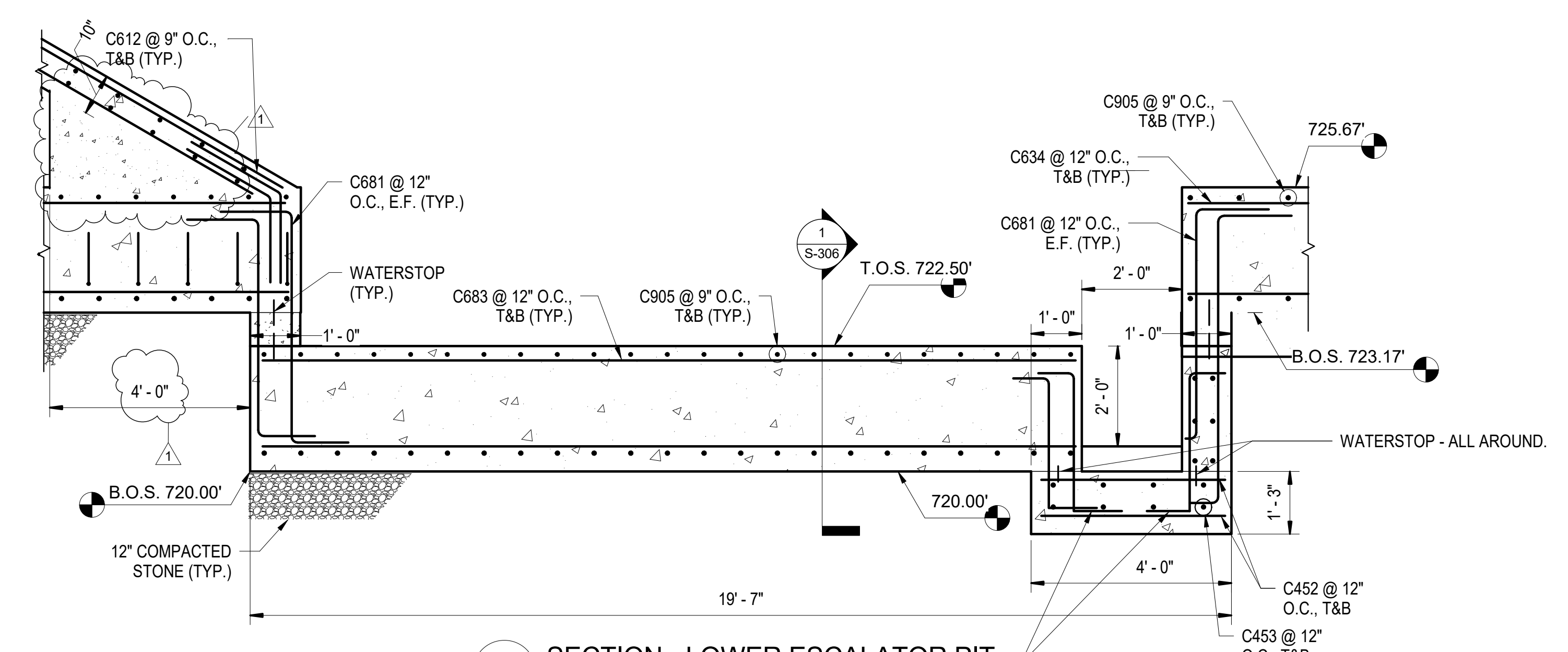
DWG. NO. 44



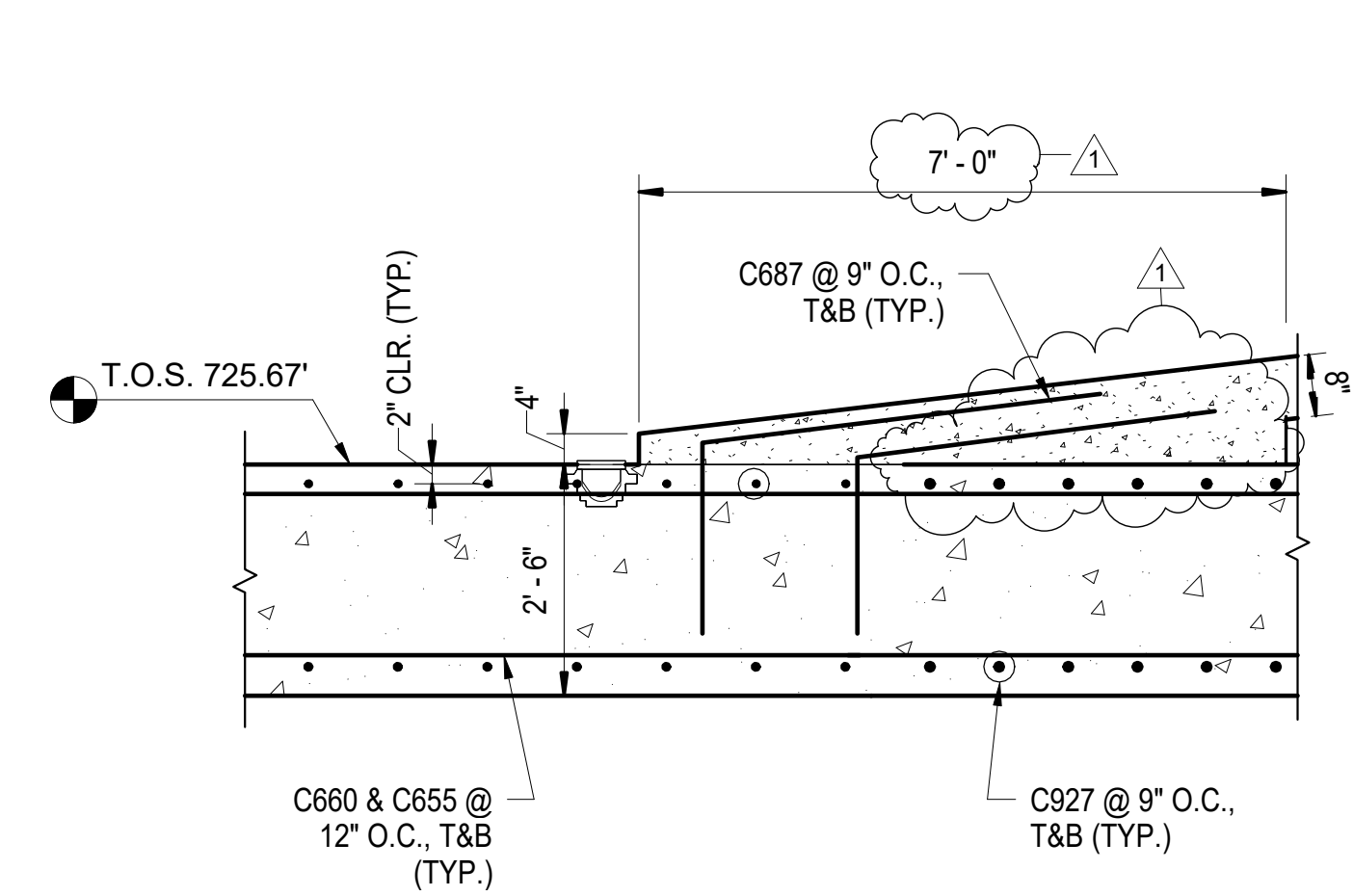
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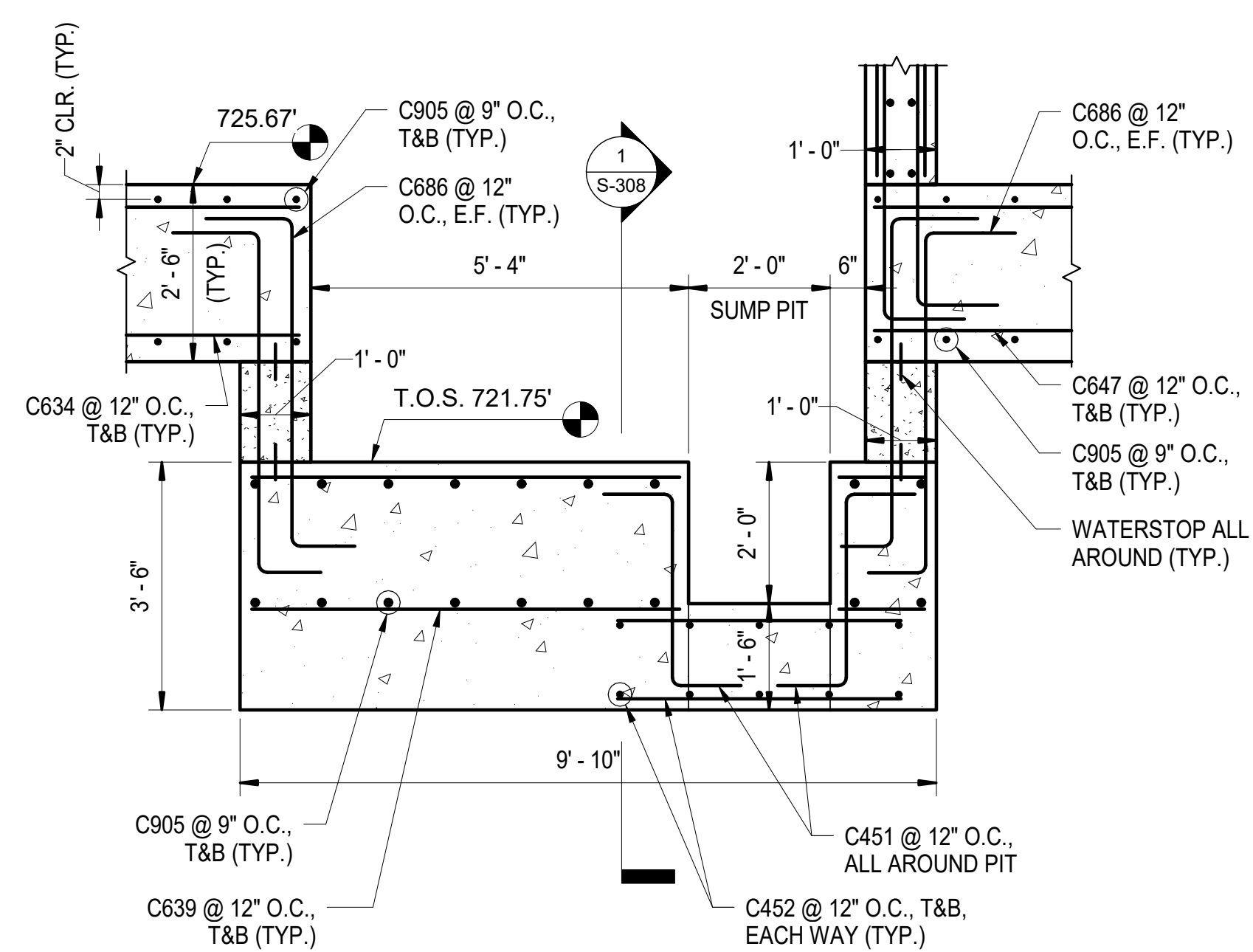
1 SECTION - UPPER ESCALATOR PIT
S-321 SCALE: 1/2" = 1'-0"



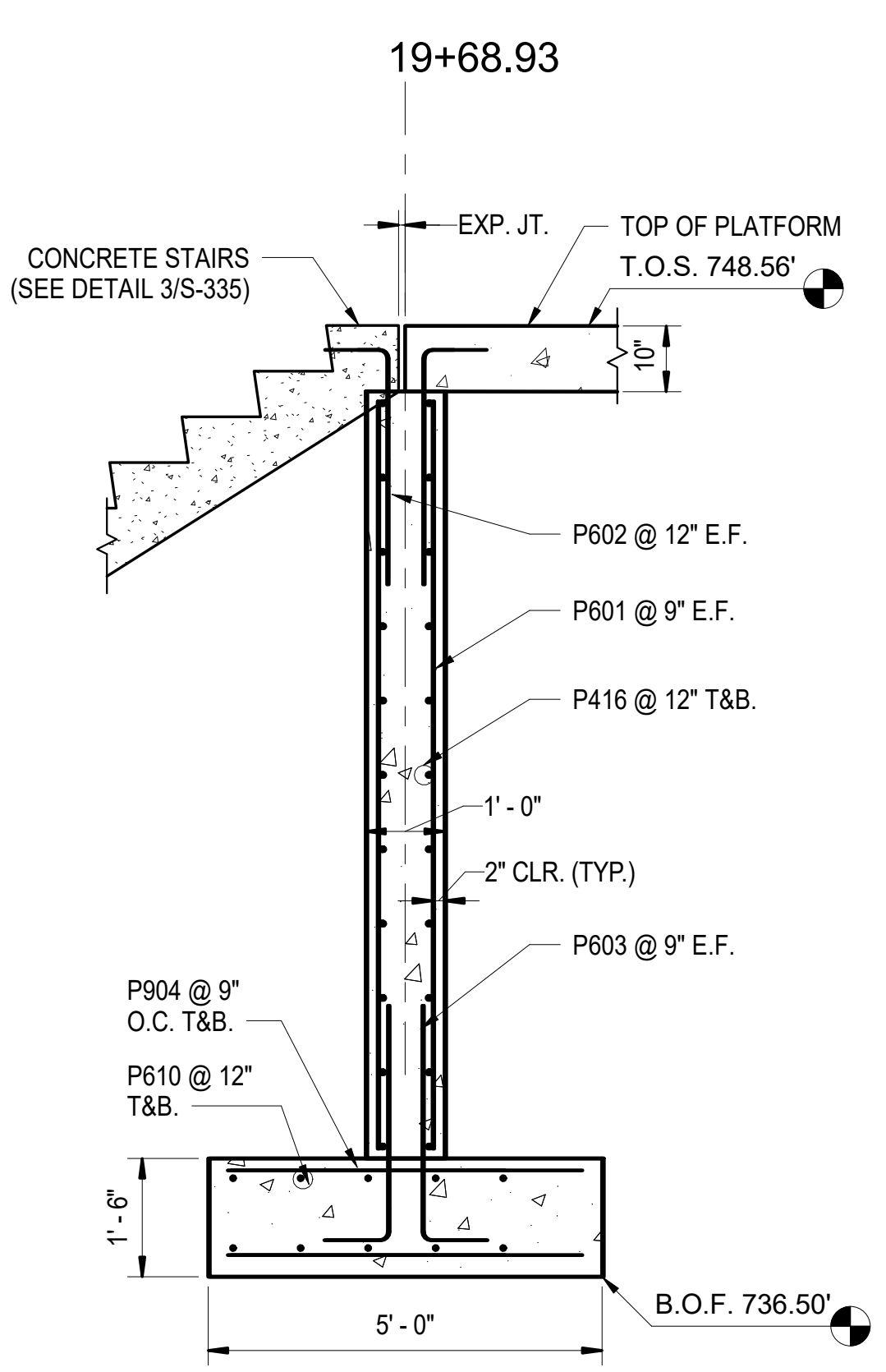
2 SECTION - LOWER ESCALATOR PIT
S-321 SCALE: 1/2" = 1'-0"



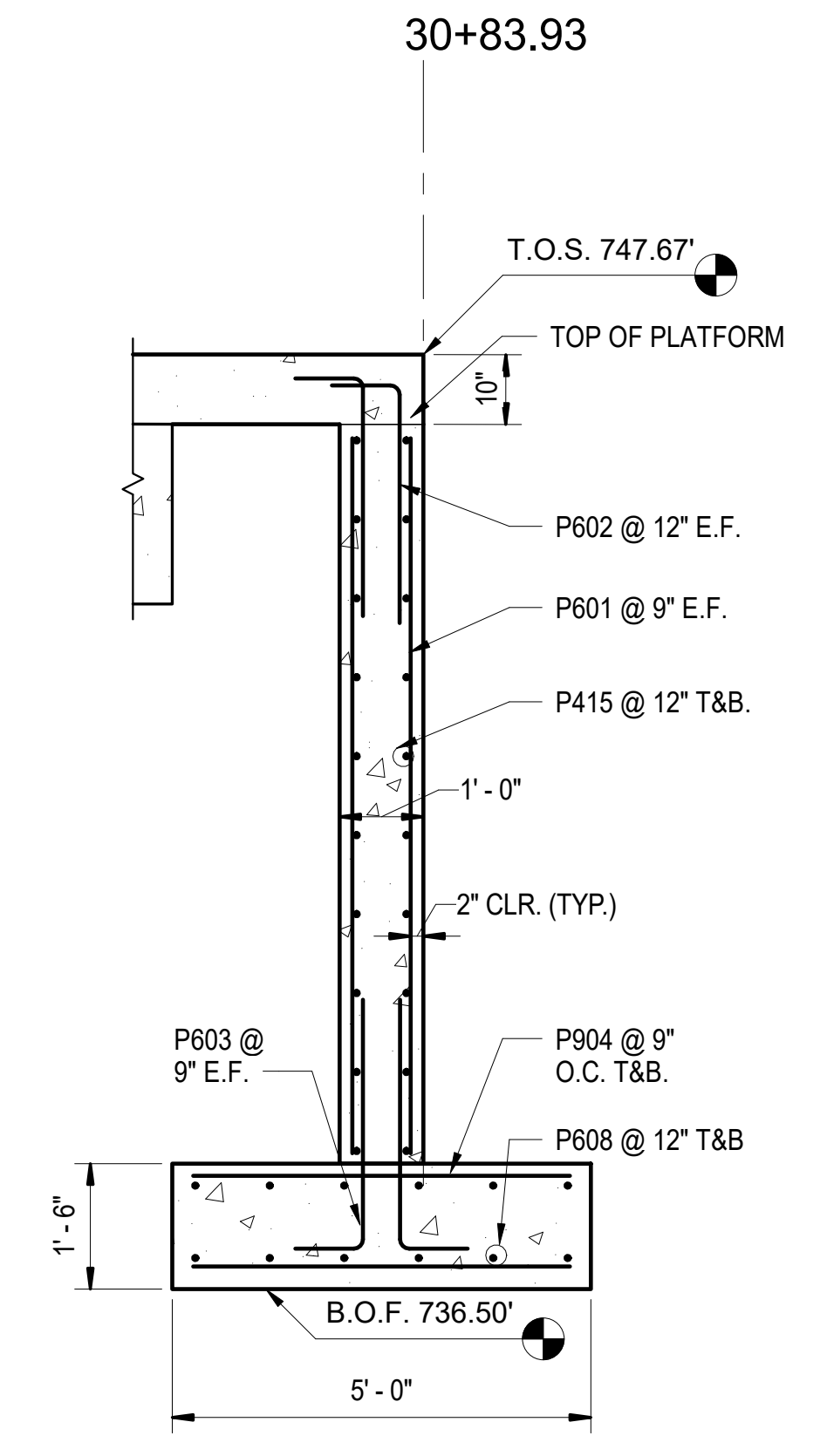
3 SECTION - BAGGAGE RAMP
S-321 SCALE: 1/2" = 1'-0"



5 SECTION - ELEVATOR PIT
S-321 SCALE: 1/2" = 1'-0"



4 SECTION - 5TH STREET EGRESS STAIRS
S-321 SCALE: 1/2" = 1'-0"

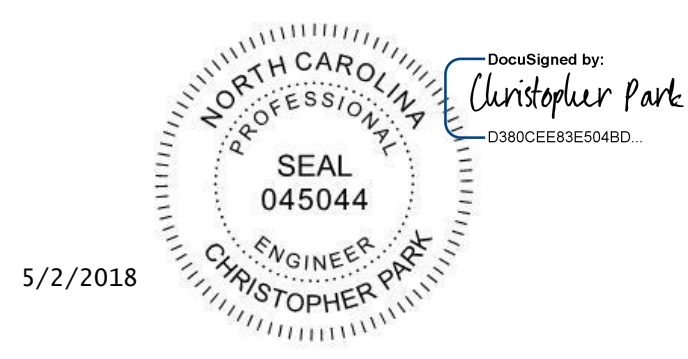


6 SECTION - END OF PLATFORM
S-321 SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

19+68.93 -S1-

SHEET 2 OF 4



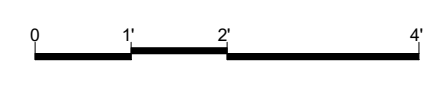
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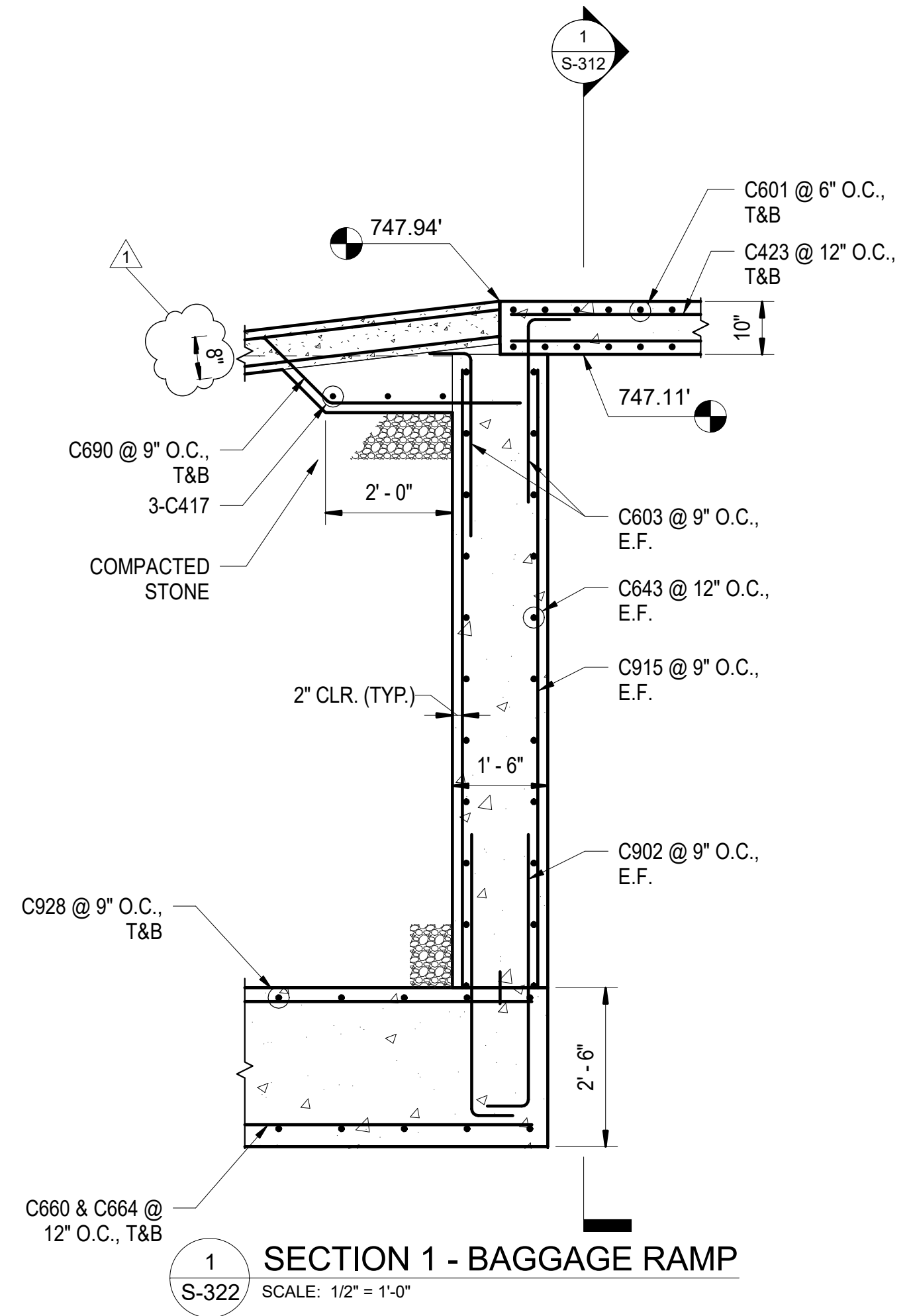
CONCRETE SECTIONS AND
DETAILS

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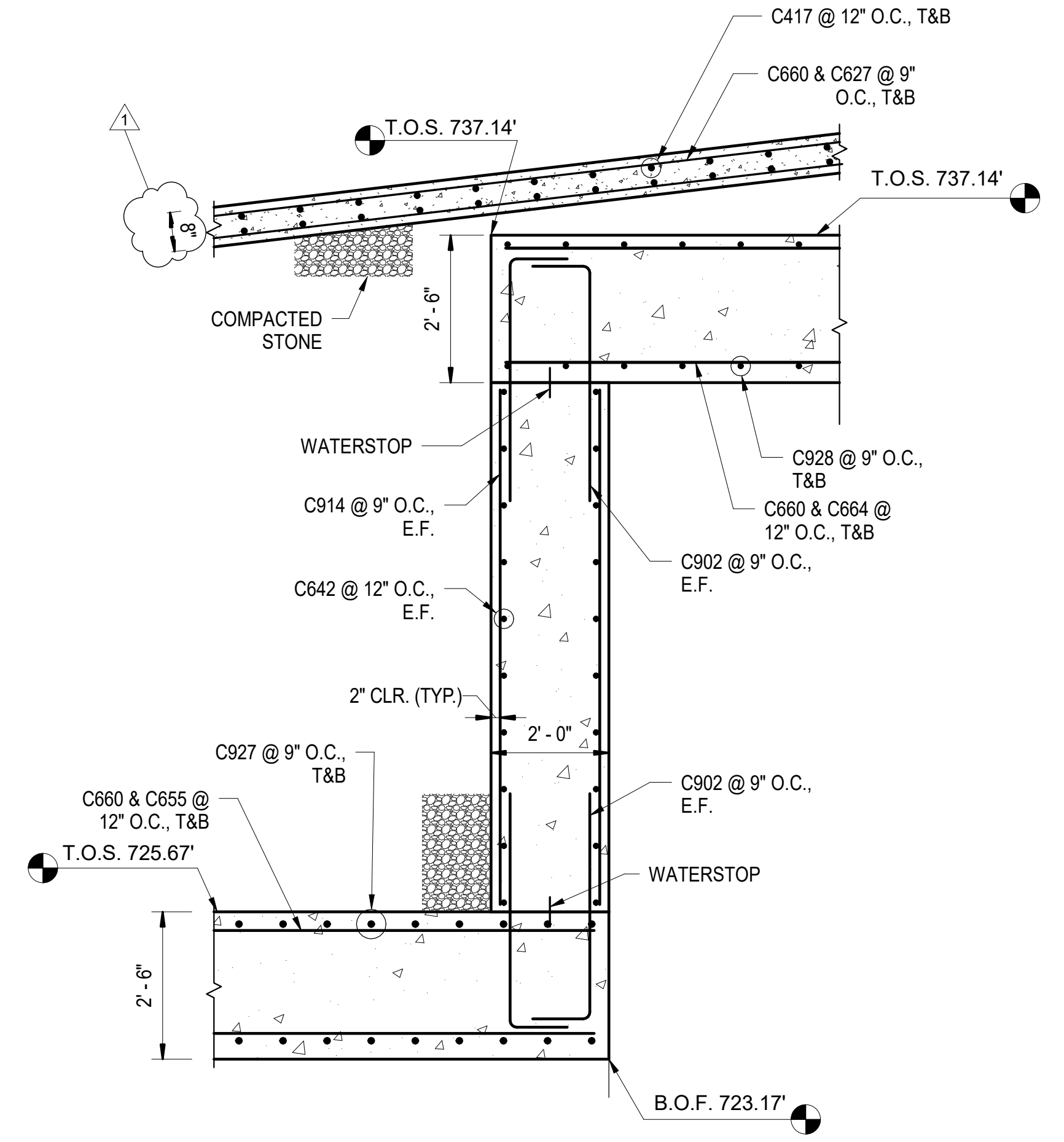
REVISIONS						SHEET NO. S-321
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



0012DEL_P28
1001ADD_P28



1 SECTION 1 - BAGGAGE RAMP
S-322 SCALE: 1/2" = 1'-0"



2 SECTION 2 - BAGGAGE RAMP
S-322 SCALE: 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 3 OF 4



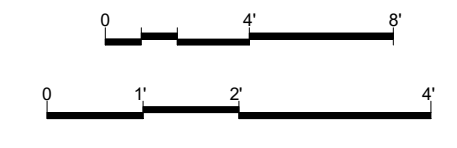
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FINAL UNLESS ALL
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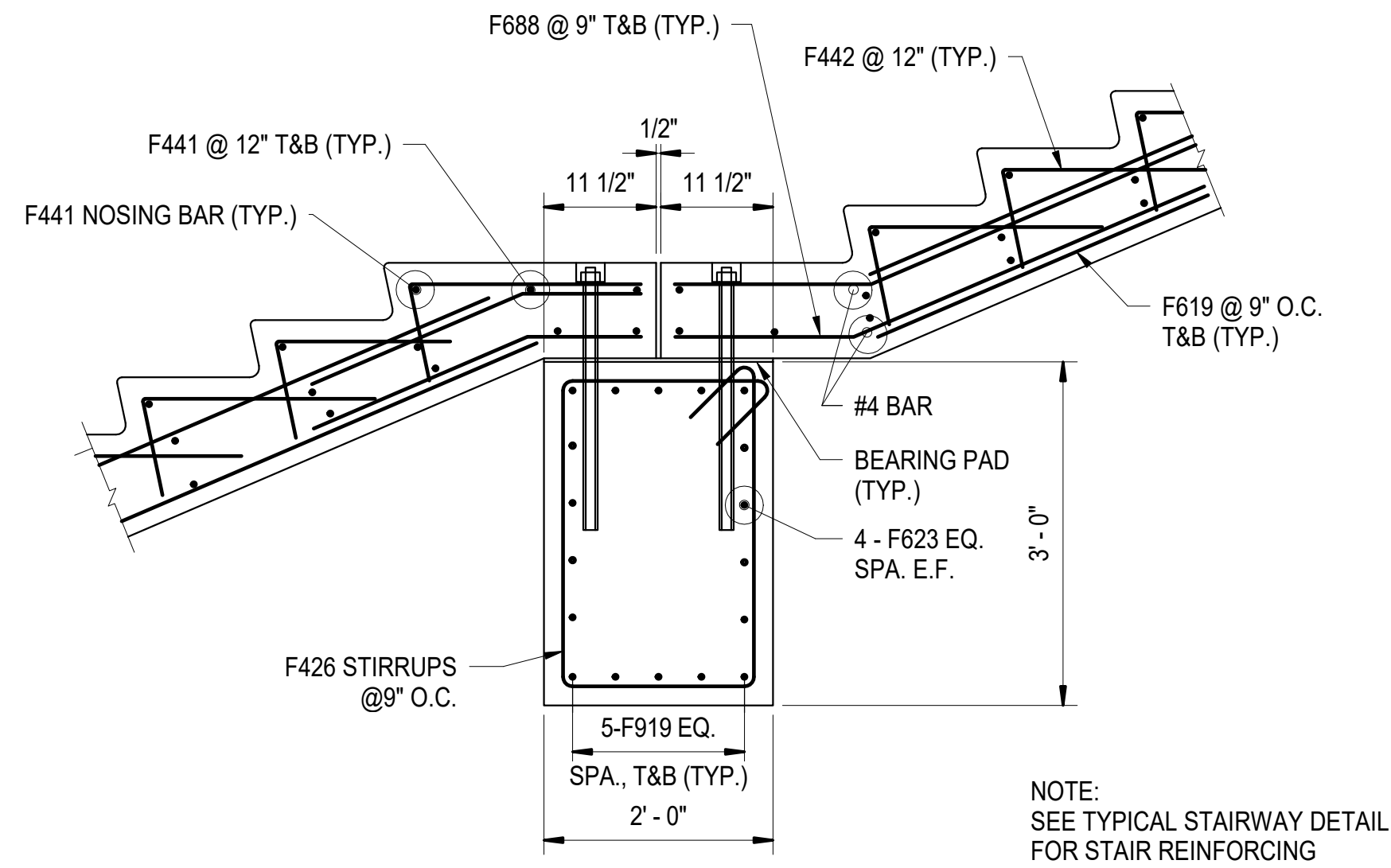
STATE OF NORTH CAROLINA
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CONCRETE SECTIONS AND
DETAILS

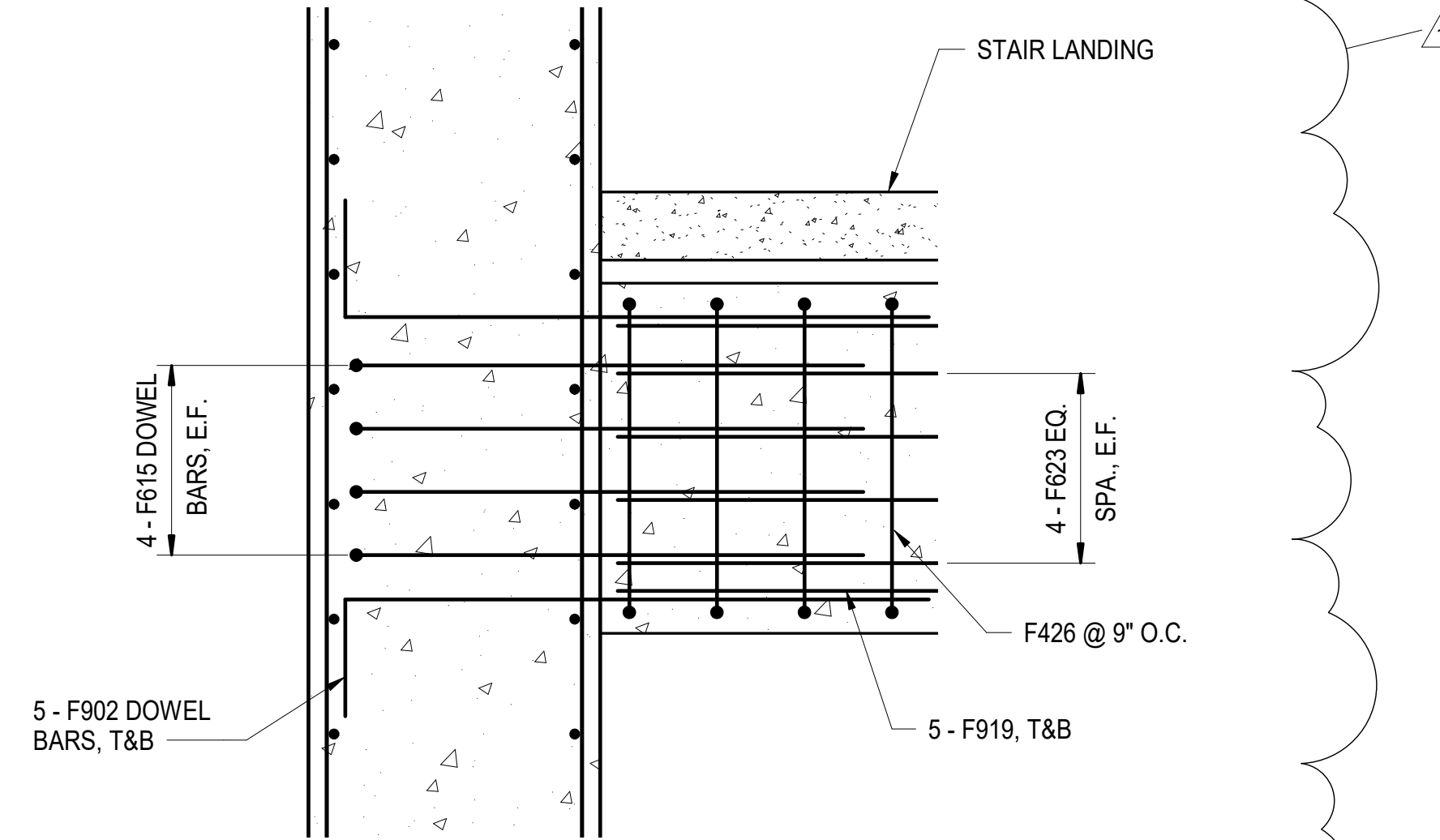
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REVISIONS						SHEET NO. S-322
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

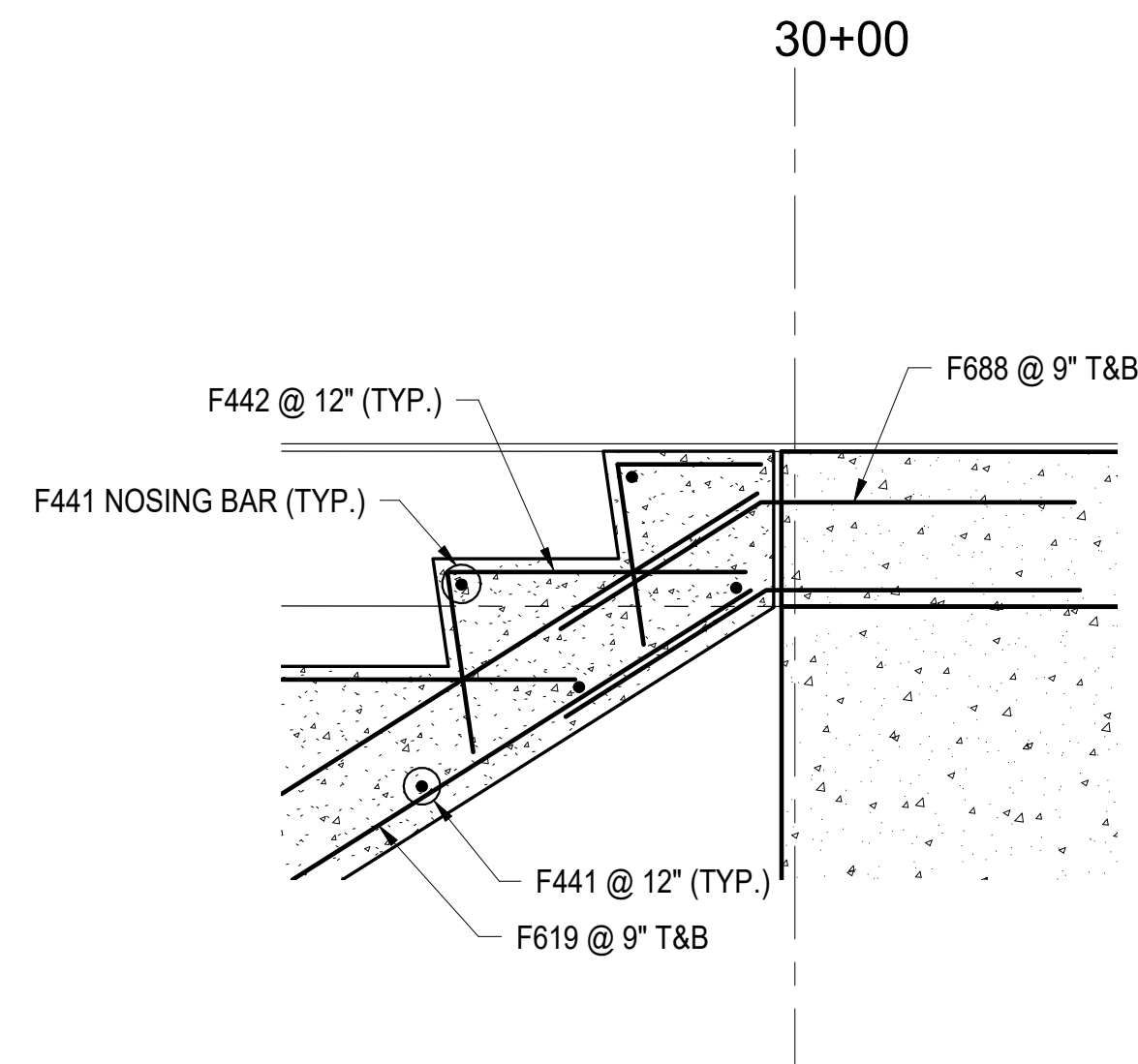




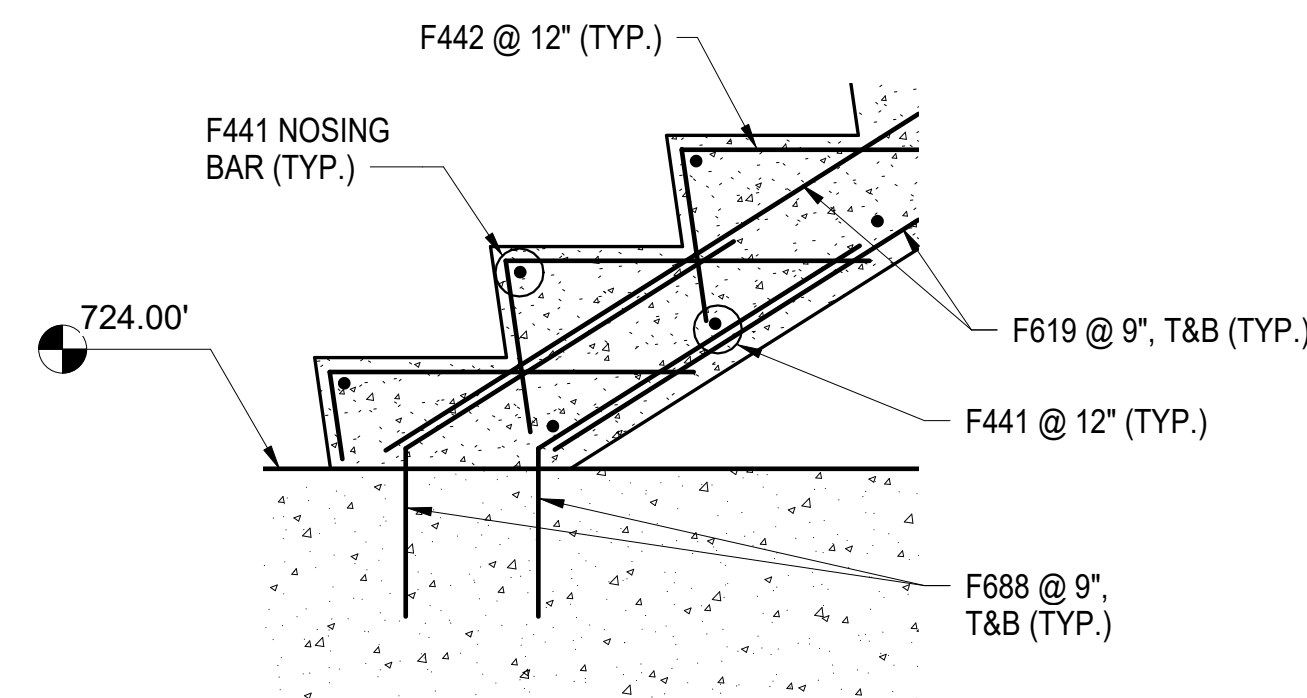
1
S-323 4TH STREET EGRESS STAIR LANDING
SCALE: 3/4" = 1'-0"



2
S-323 STAIR SUPPORT BEAM TO WALL
CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



3
S-323 4TH STREET EGRESS STAIRWAY TOP
LANDING
SCALE: 1" = 1'-0"



4
S-323 4TH STREET EGRESS STAIRWAY
BOTTOM LANDING
SCALE: 1" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 4 OF 4



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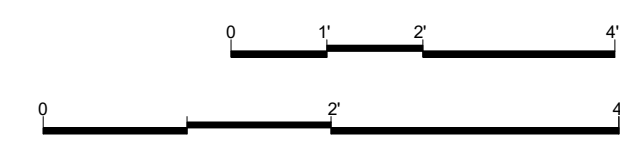
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DETAILS

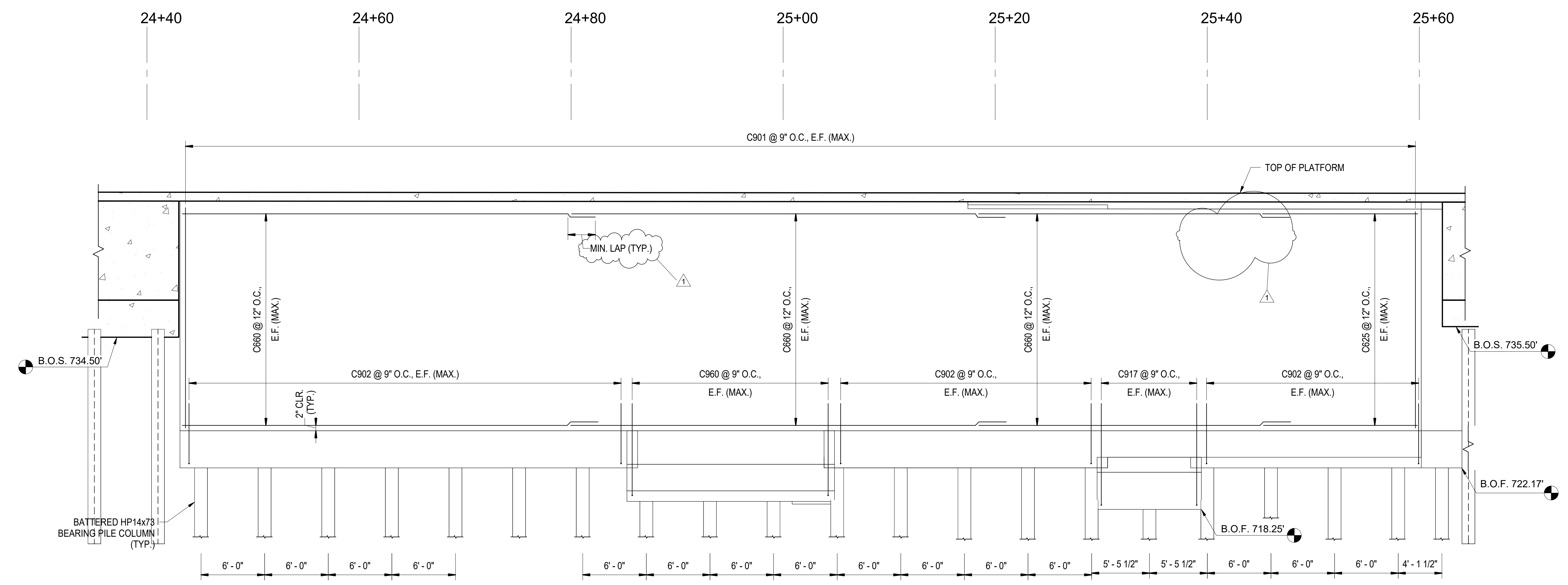
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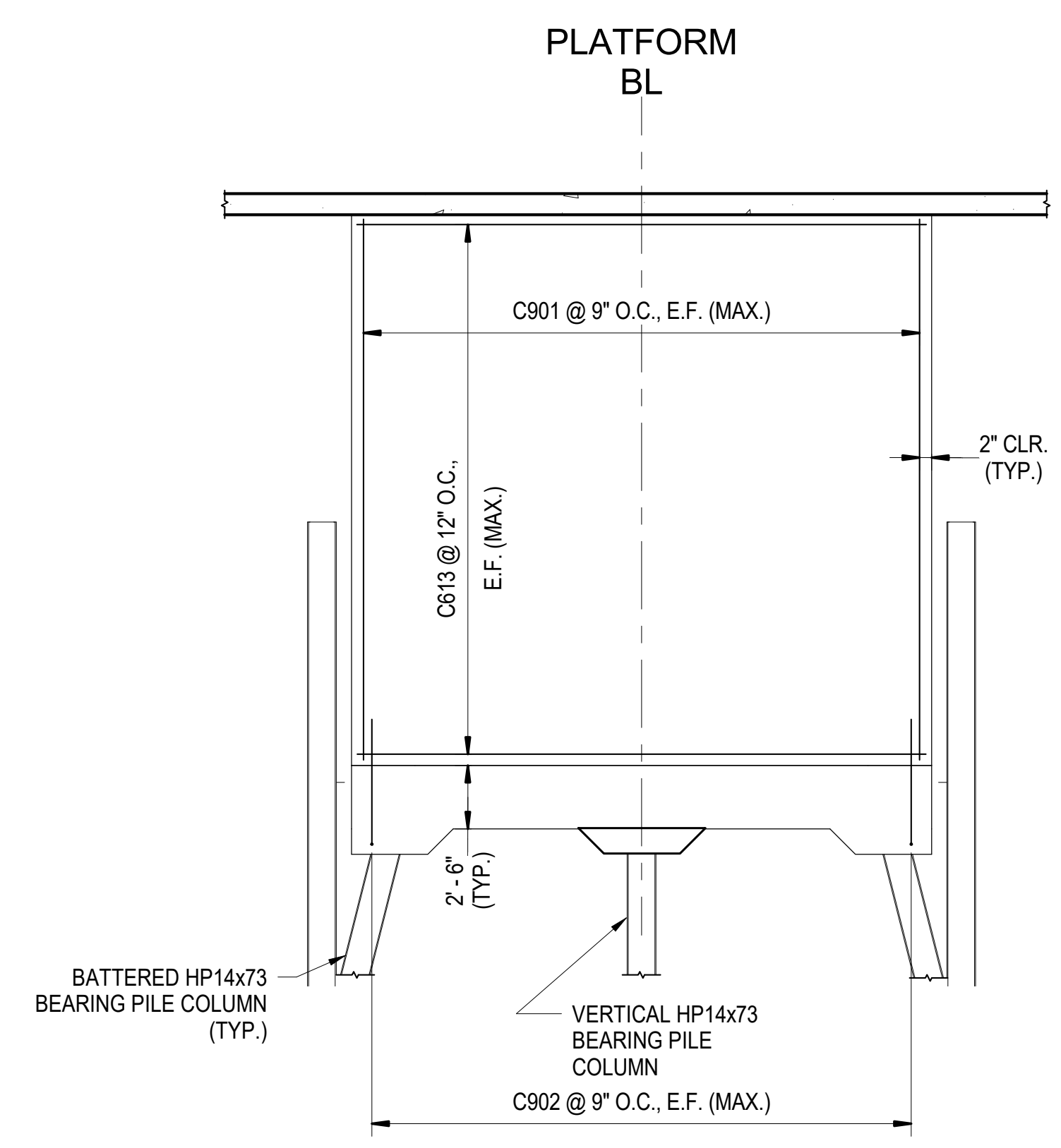
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NO.	BY	DATE	NO.	BY	DATE
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2			4		

SHEET NO.
S-323
TOTAL
SHEETS
98

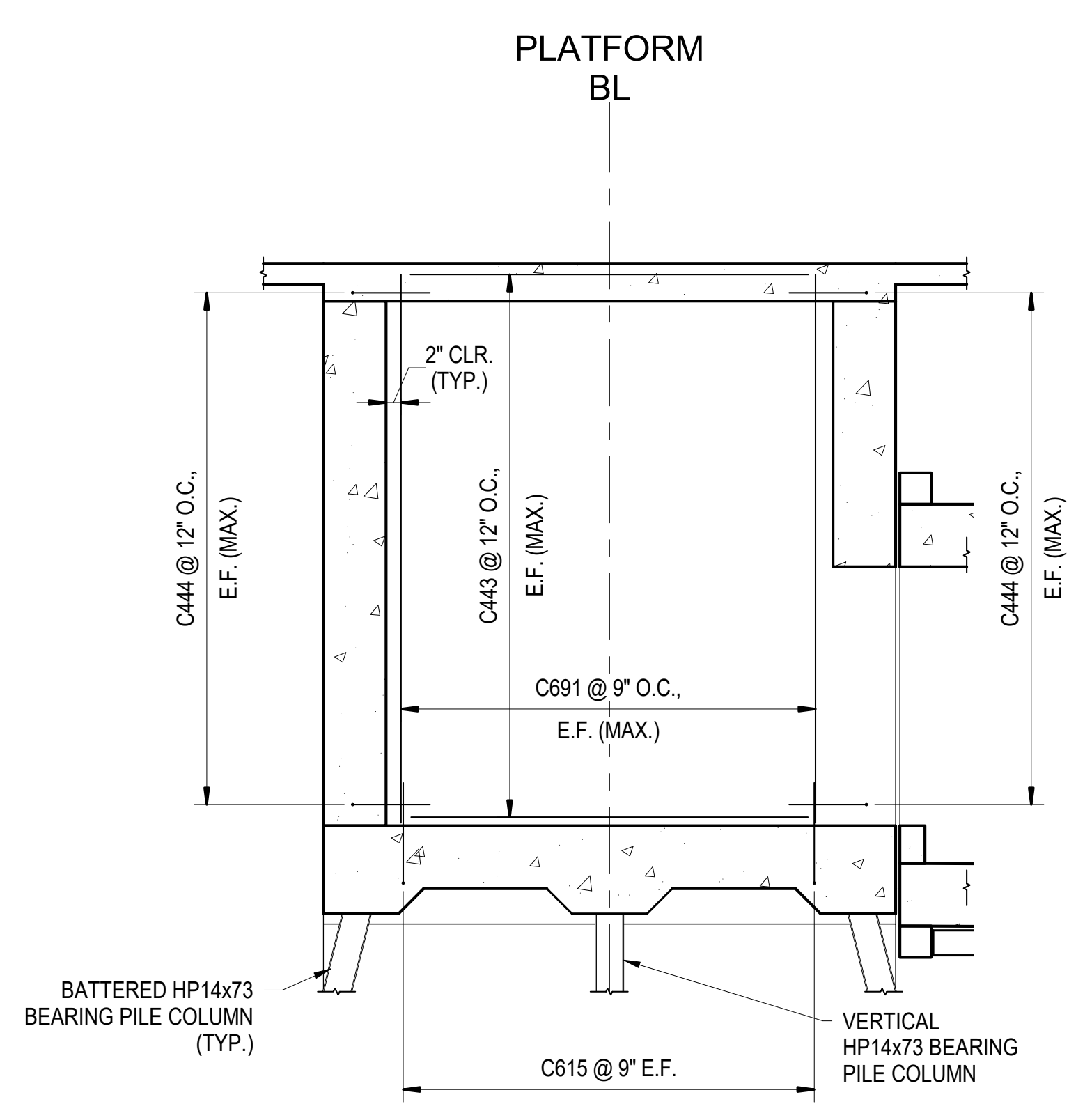




1 CONCOURSE WEST WALL ELEVATION
S-330 SCALE: 3/16" = 1'-0"

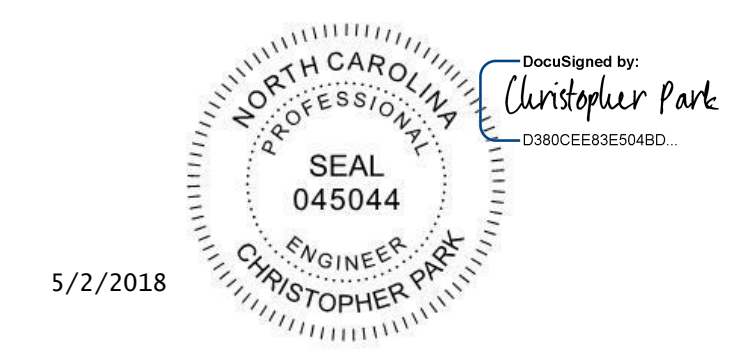


2 CONCOURSE NORTH WALL ELEVATION
S-330 SCALE: 3/16" = 1'-0"



3 ELEVATOR PARTITION WALL ELEVATION
S-330 SCALE: 3/16" = 1'-0"

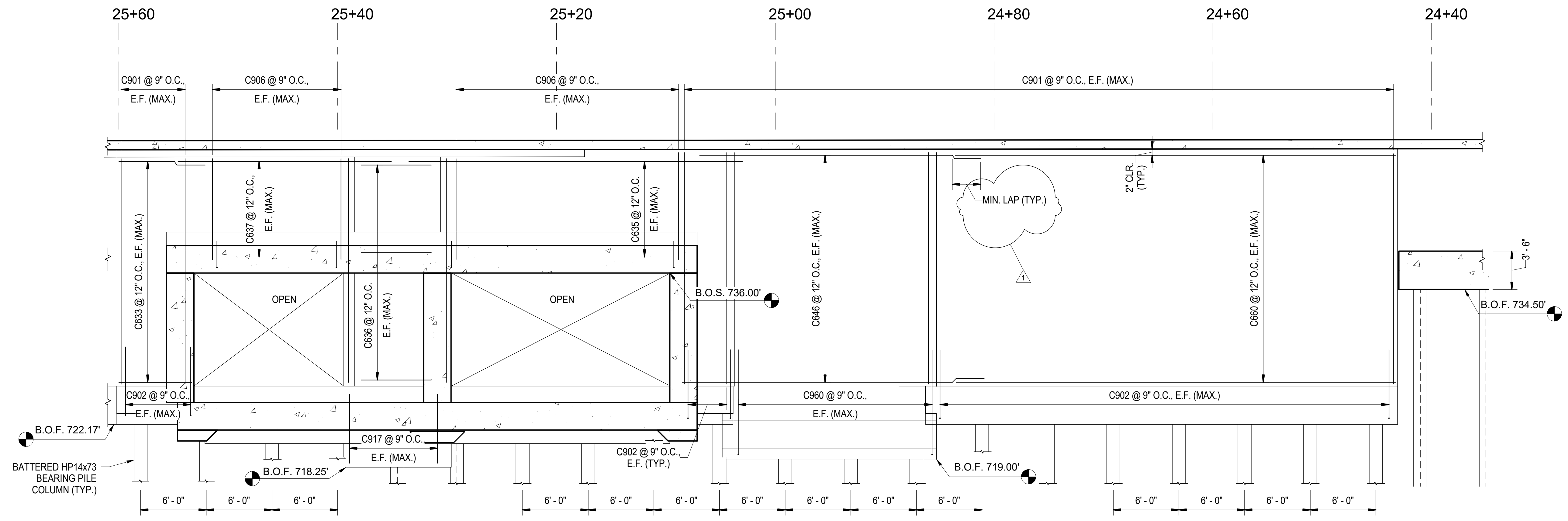
PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



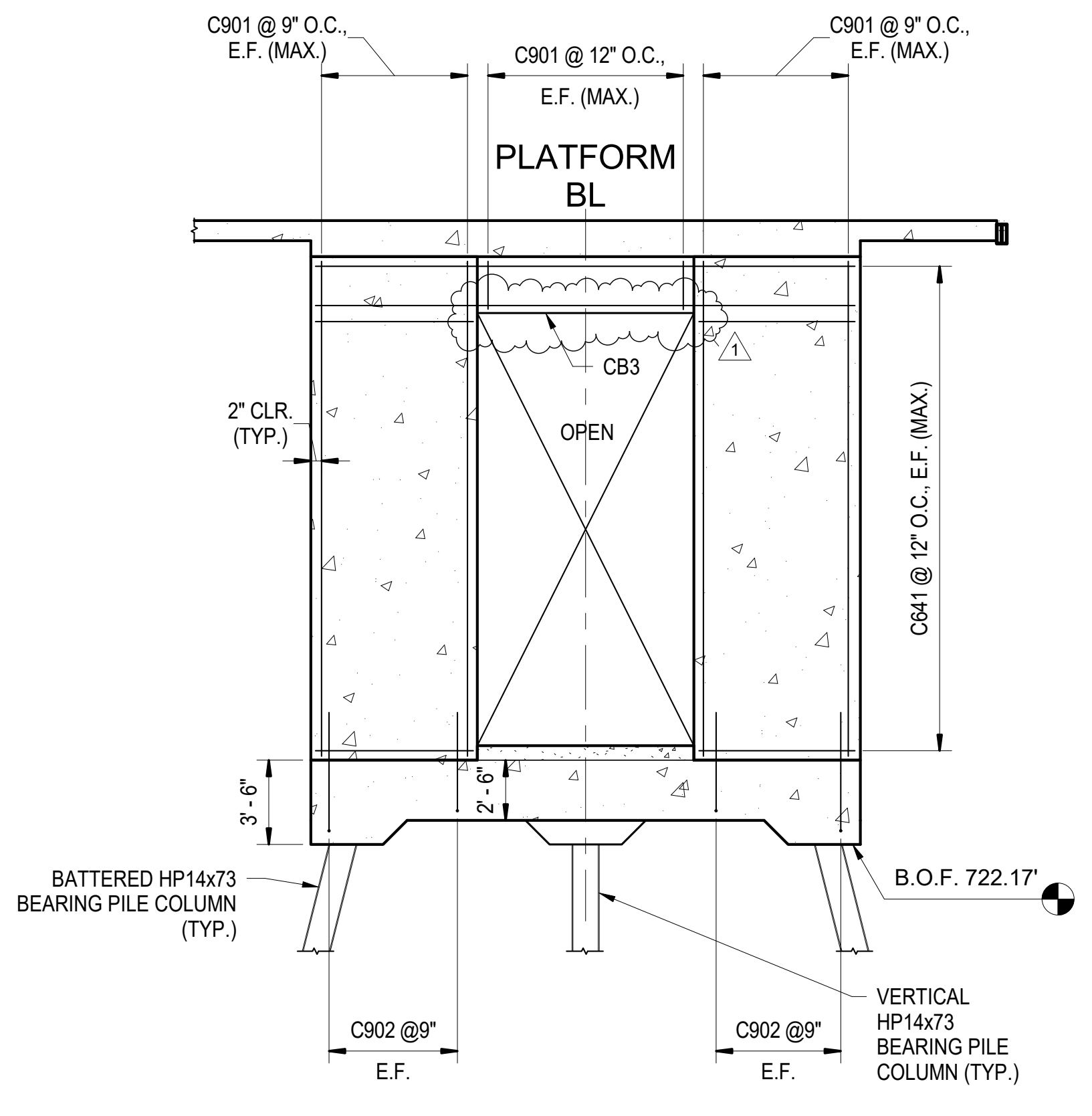
DOCUMENT NOT CONSIDERED
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
REINFORCEMENT ELEVATION -
CONCOURSE WEST & NORTH
WALL

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DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK		DATE: 3/27/2018 DATE: 3/27/2018		REVISIONS	
				NO.	BY
				DATE	DATE
				NO.	BY
				DATE	DATE
				TOTAL SHEETS 98	

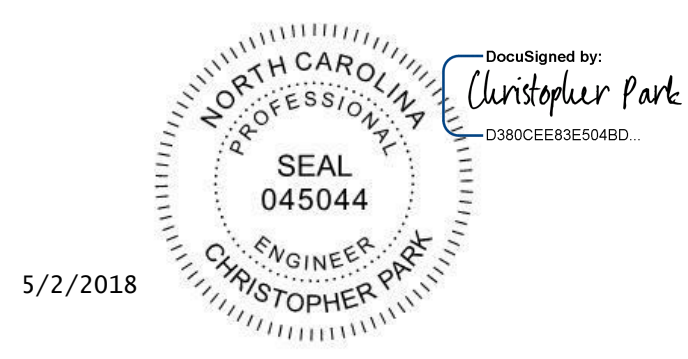


1 CONCOURSE EAST WALL ELEVATION
SCALE: 3/16" = 1'-0"



2 CONCOURSE SOUTH WALL ELEVATION
SCALE: 3/16" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



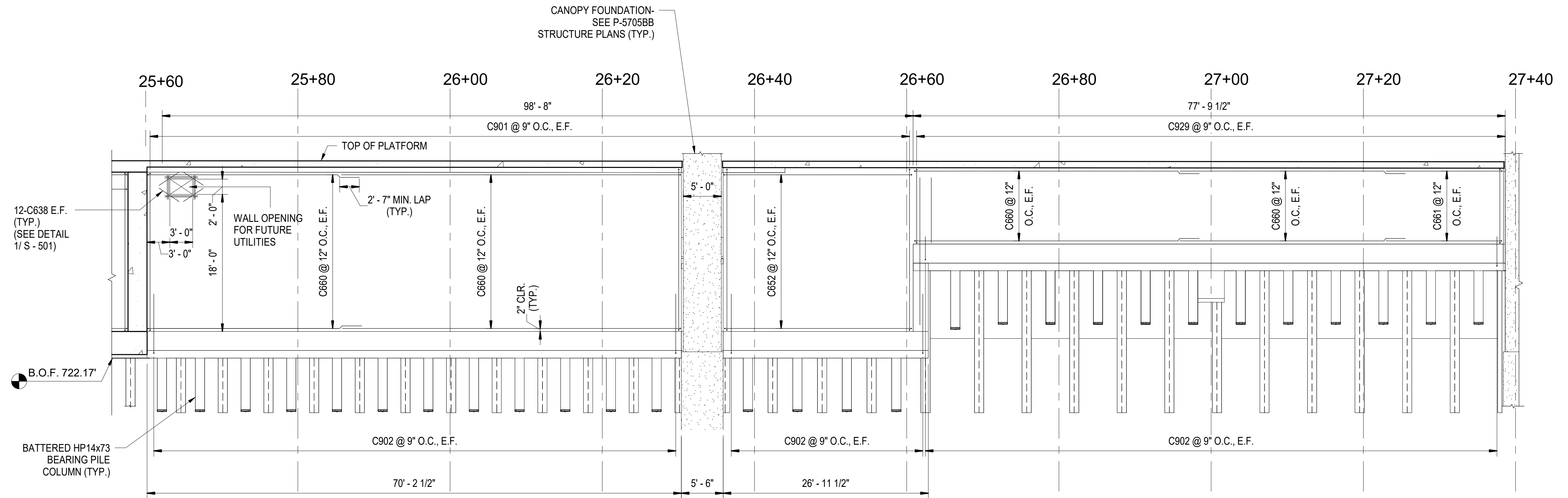
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
REINFORCEMENT ELEVATION -
CONCOURSE EAST & SOUTH
WALL

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REVISIONS						SHEET NO. S-331
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			





1 BAGGAGE RAMP WEST ELEVATION
S-332 SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



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DEPARTMENT OF TRANSPORTATION
RALEIGH

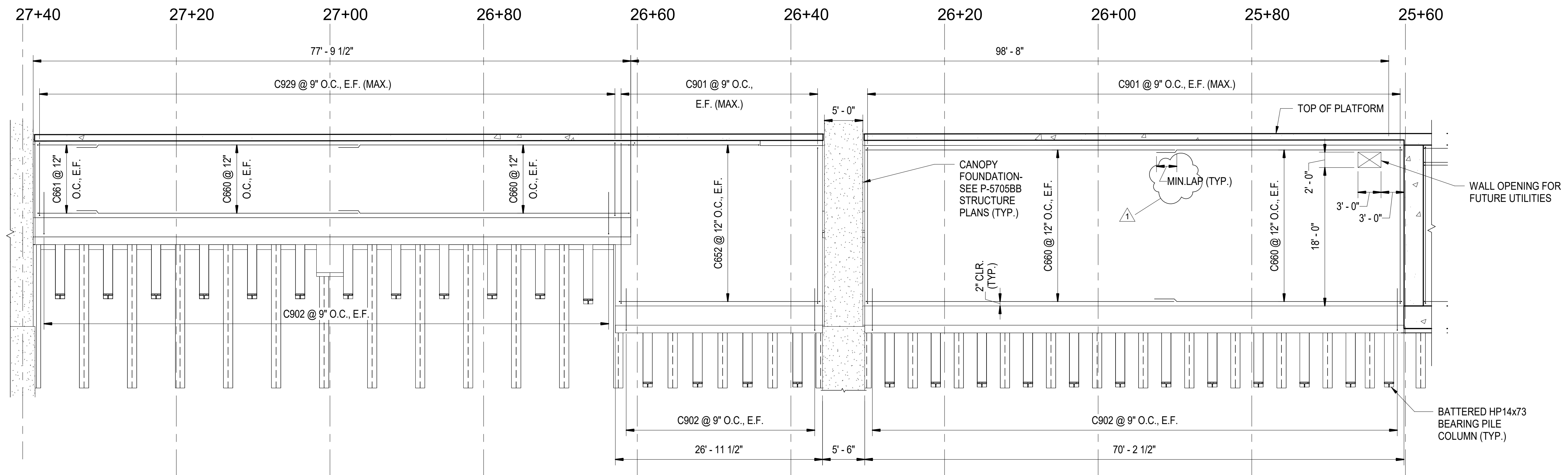
REINFORCEMENT ELEVATION -
BAGGAGE RAMP WEST

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NC License No. C-1554
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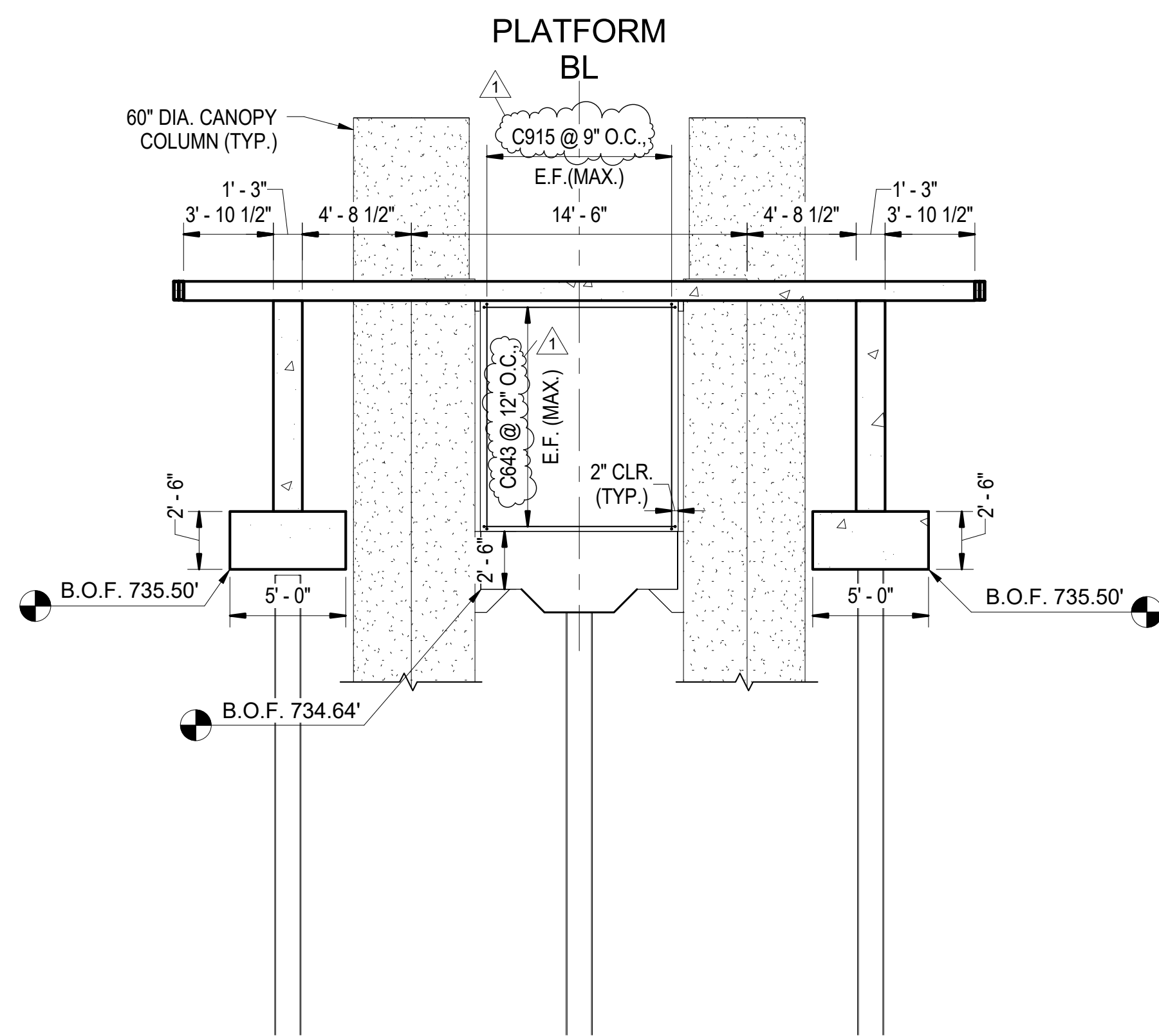
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 50

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-332
1			3			TOTAL SHEETS
2			4			98





1 BAGGAGE RAMP EAST ELEVATION
S-333 SCALE: 1/8" = 1'-0"



2 BAGGAGE RAMP SOUTH ELEVATION
S-333 SCALE: 3/16" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



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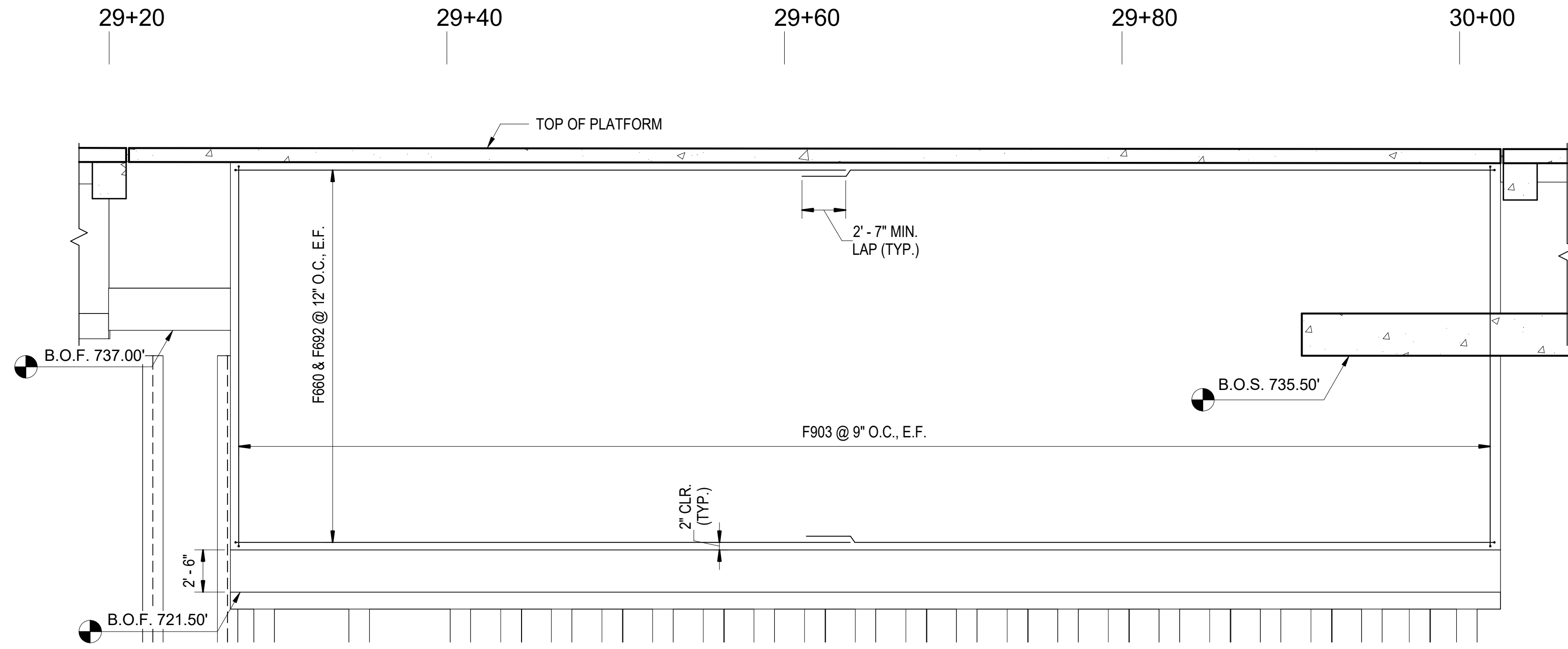
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REINFORCEMENT ELEVATION -
BAGGAGE RAMP EAST &
SOUTH

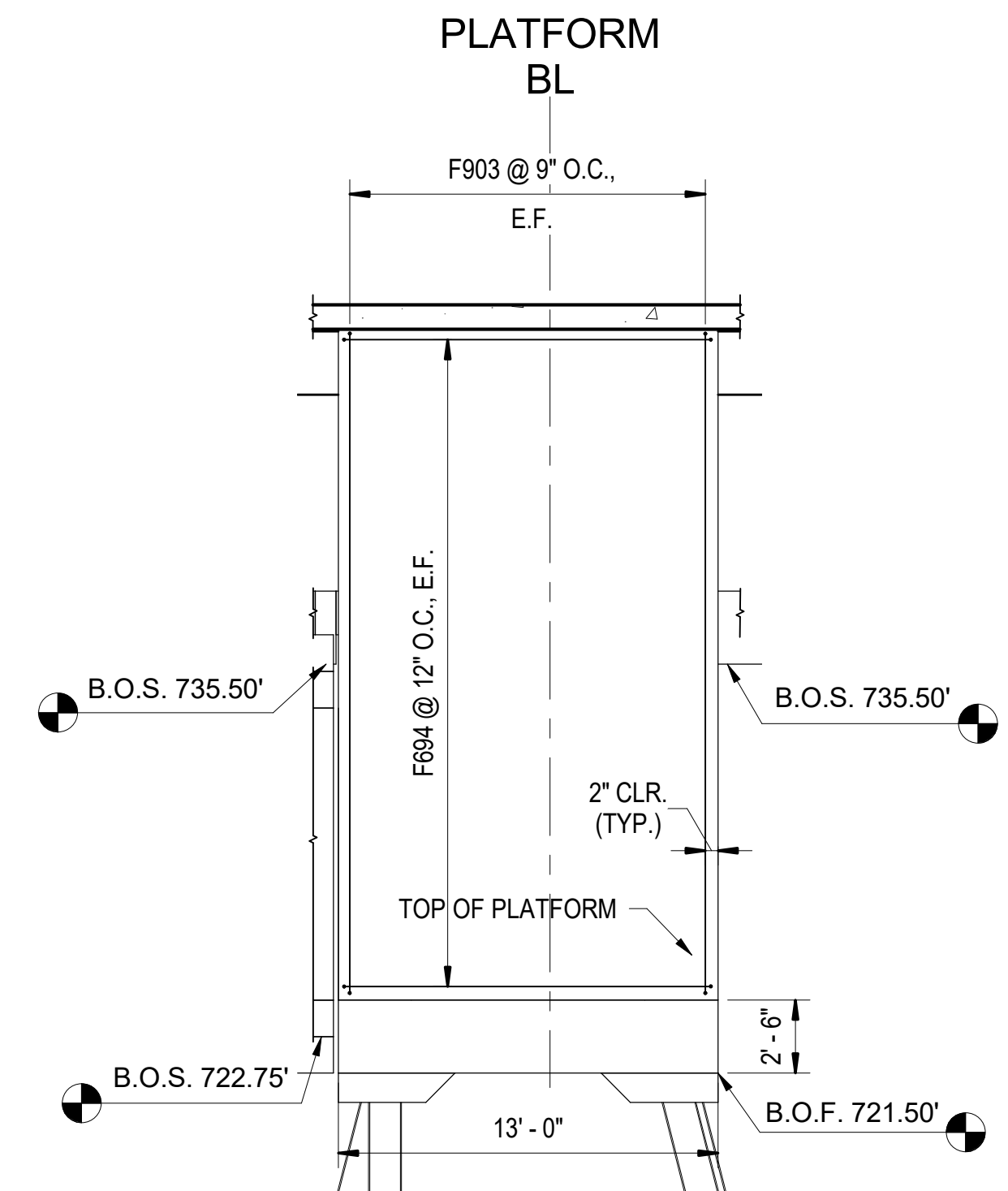
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DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 51

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-333
1	CP	5/2/18	3			TOTAL SHEETS
2			4			98

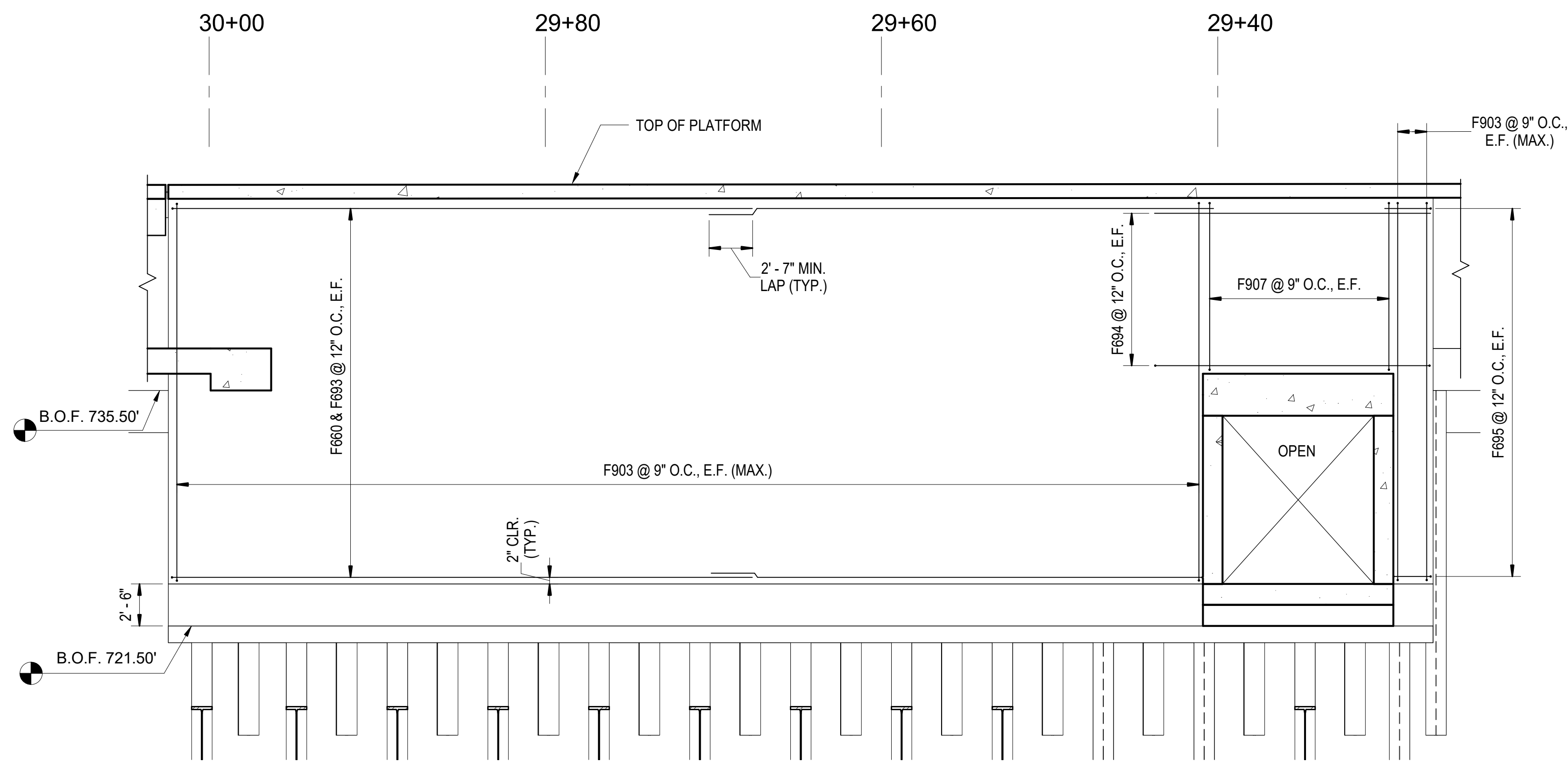




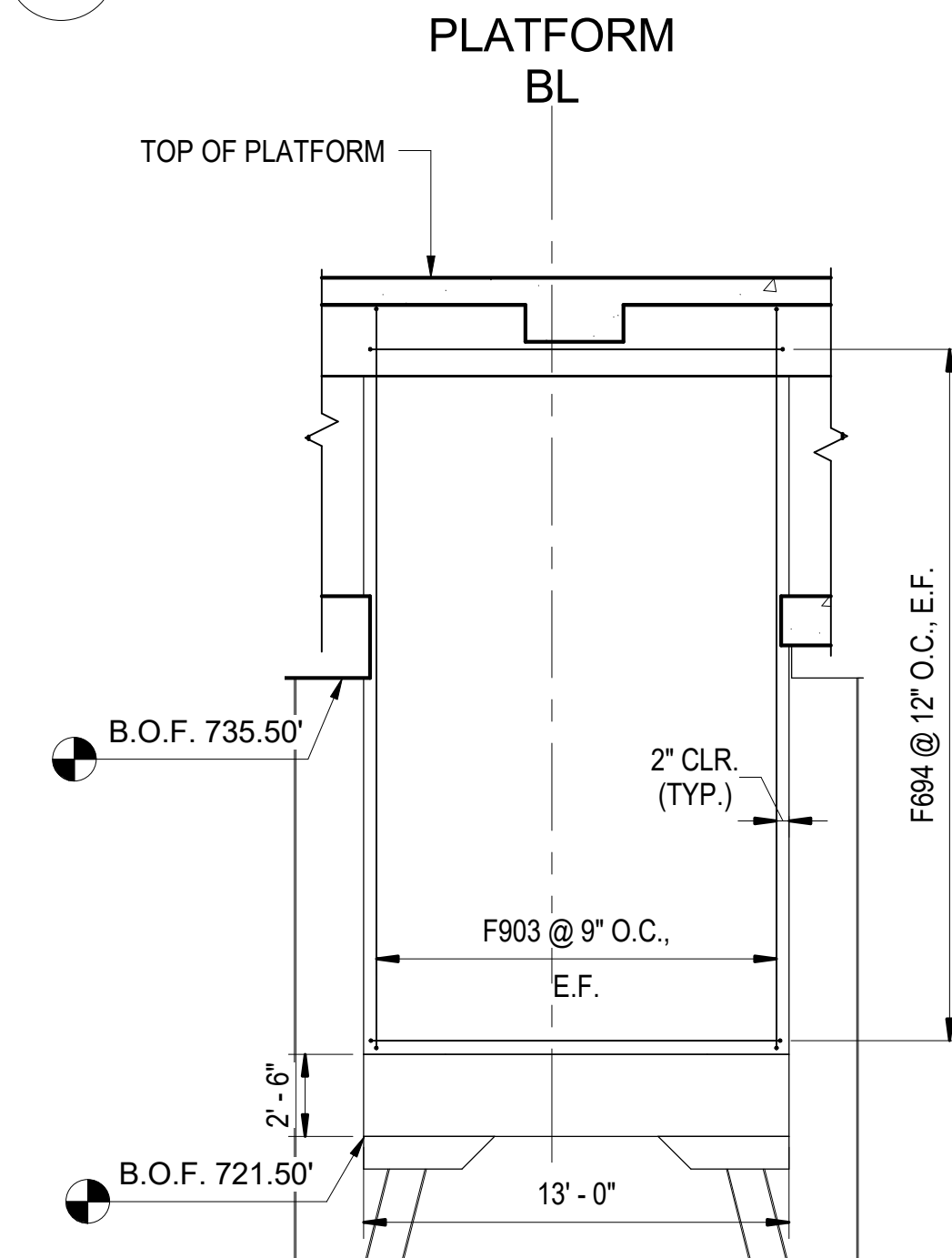
1
S-334
4TH STREET - EGRESS STAIR WEST
ELEVATION
SCALE: 3/16" = 1'-0"



2
S-334
4TH STREET - EGRESS STAIR NORTH
ELEVATION
SCALE: 3/16" = 1'-0"



3
S-334
4TH STREET - EGRESS STAIR EAST
ELEVATION
SCALE: 3/16" = 1'-0"



4
S-334
4TH STREET - EGRESS STAIR SOUTH
ELEVATION
SCALE: 3/16" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



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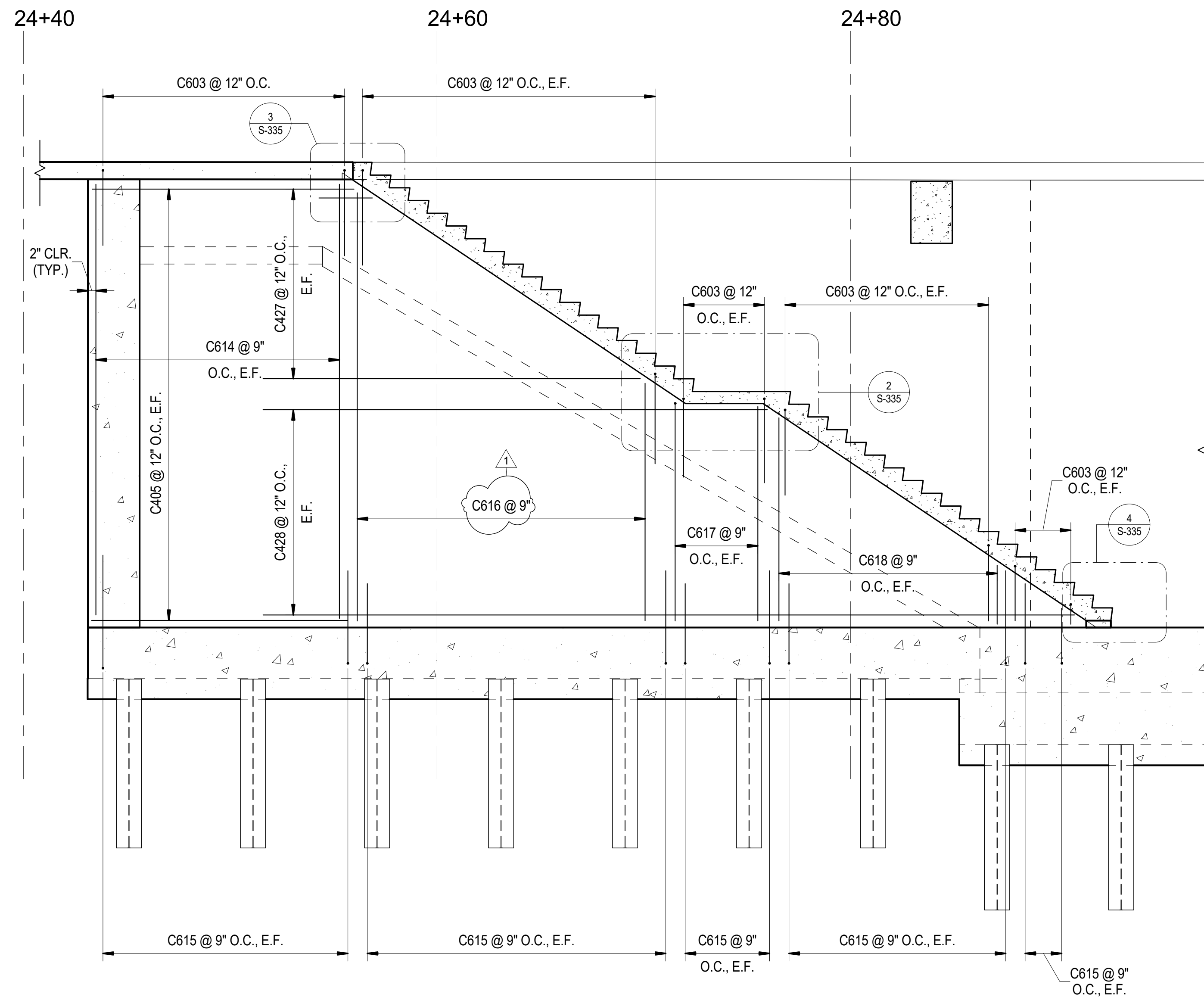
STATE OF NORTH CAROLINA
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RALEIGH

REINFORCEMENT ELEVATION -
4TH STREET EGRESS STAIR

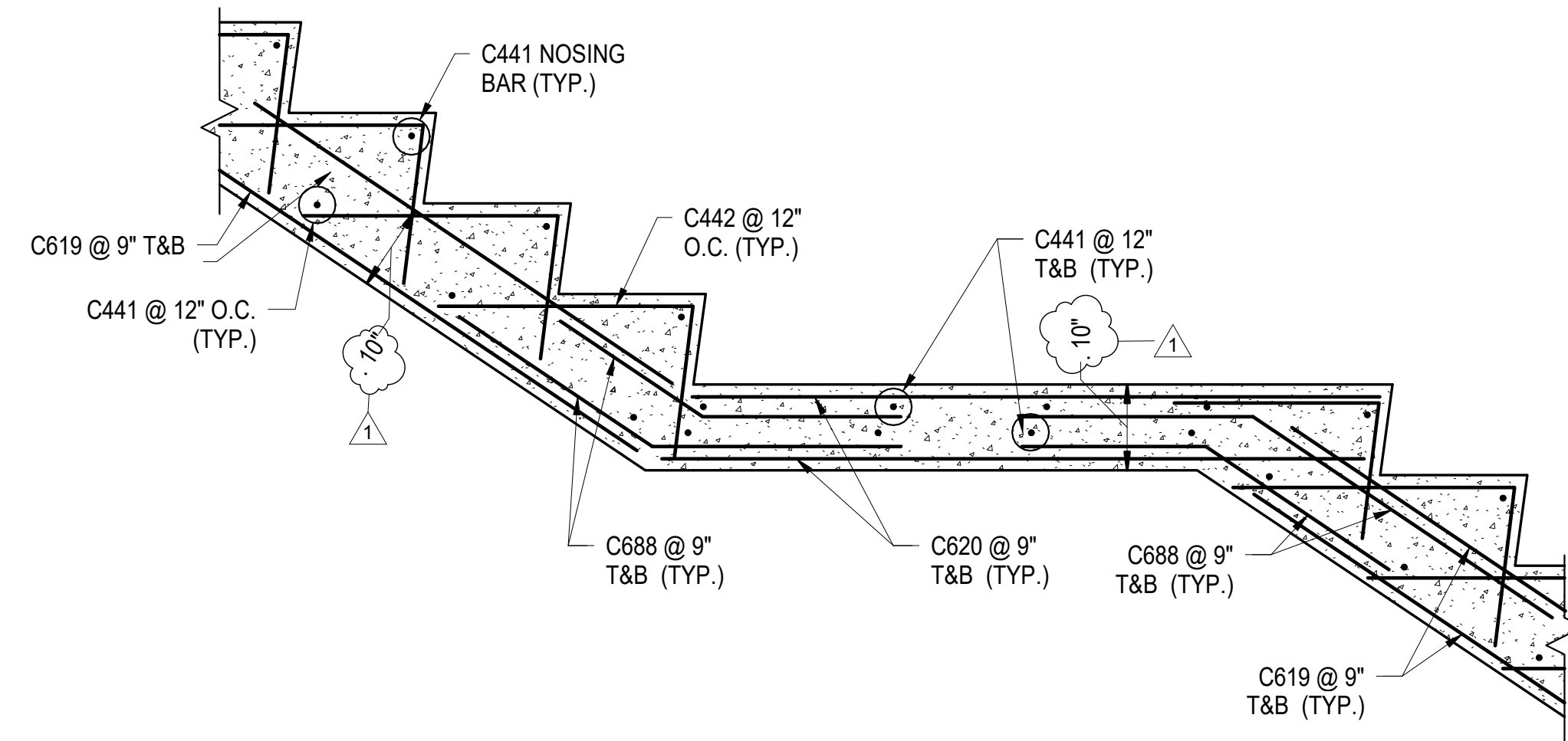
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NC License No. C-1554
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DWG. NO. 52

REVISIONS						SHEET NO. S-334
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

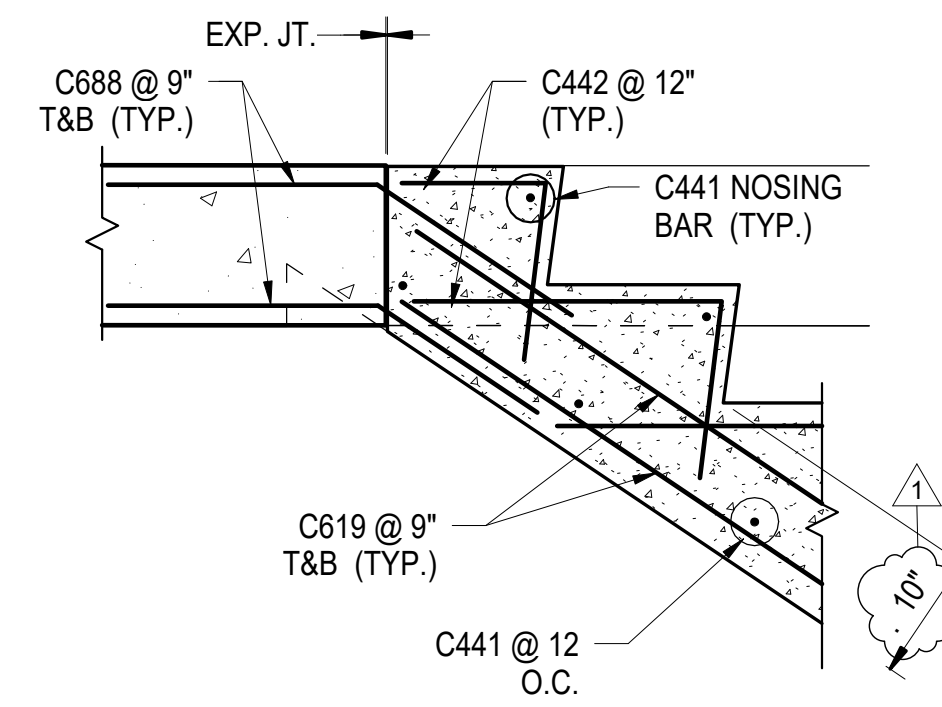




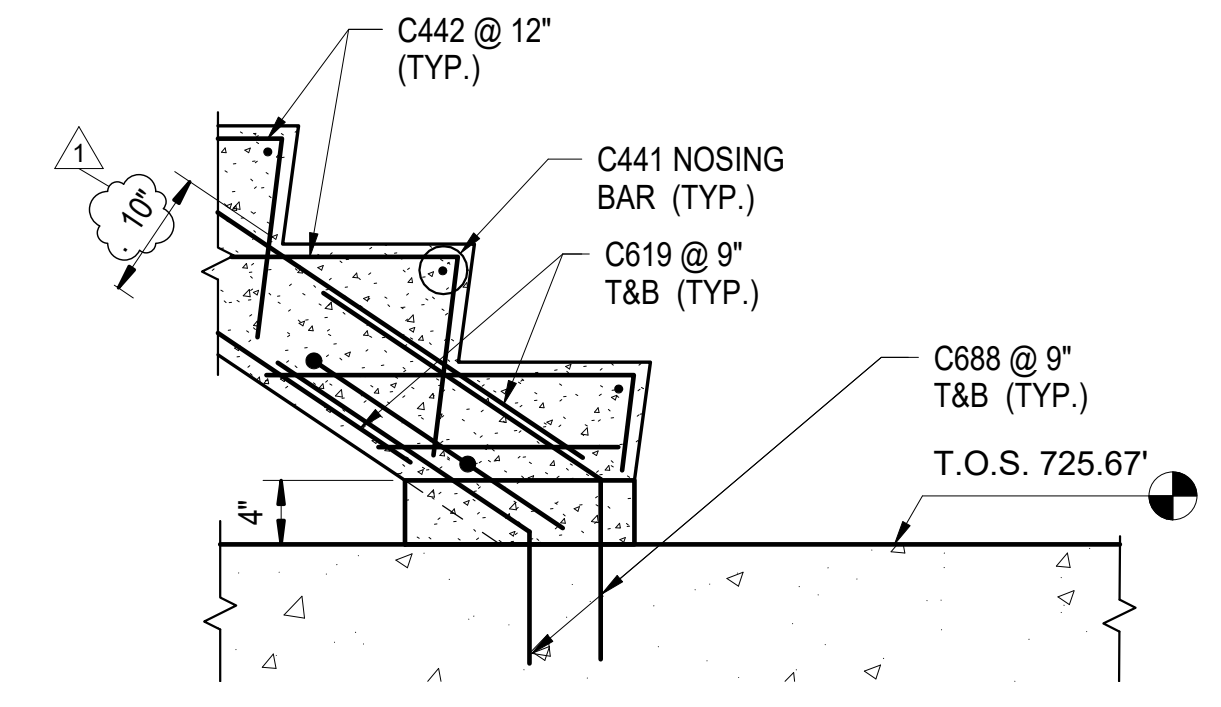
1 CONCURSE STAIRWAY REINFORCING
S-335 SCALE: 1/4" = 1'-0"



2 CONCURSE STAIRWAY
S-335 SCALE: 1" = 1'-0"



3 CONCURSE STAIRWAY TOP LANDING
S-335 SCALE: 1" = 1'-0"



4 CONCURSE STAIRWAY BOTTOM LANDING
S-335 SCALE: 1" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



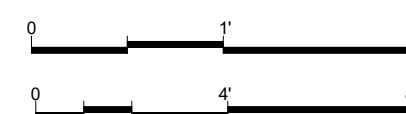
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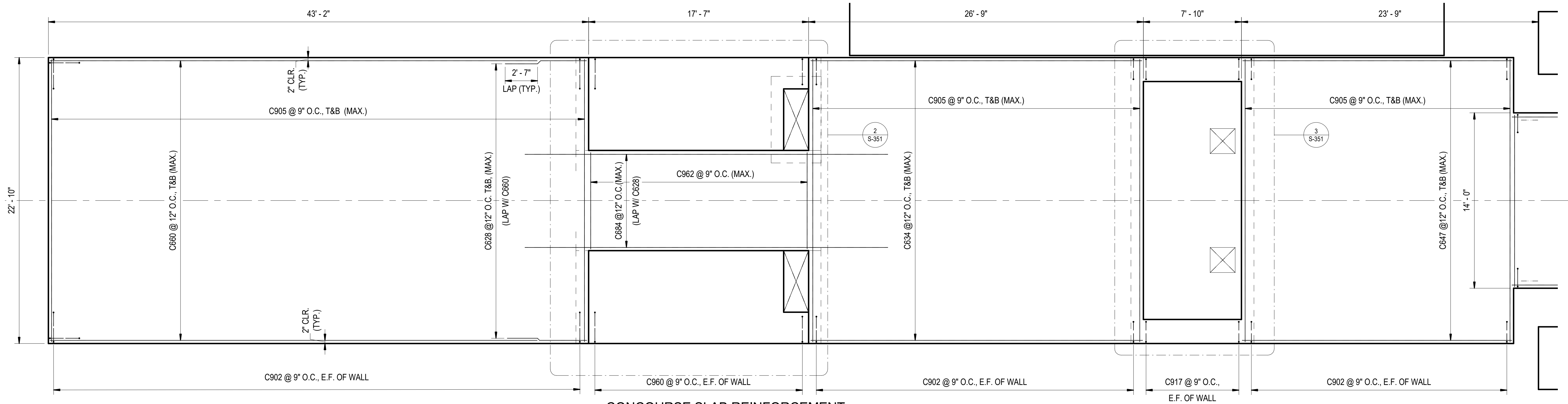
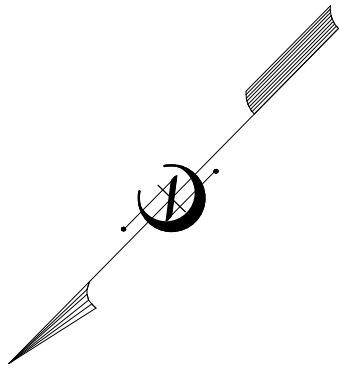
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REINFORCEMENT ELEVATION -
CONCURSE STAIRS

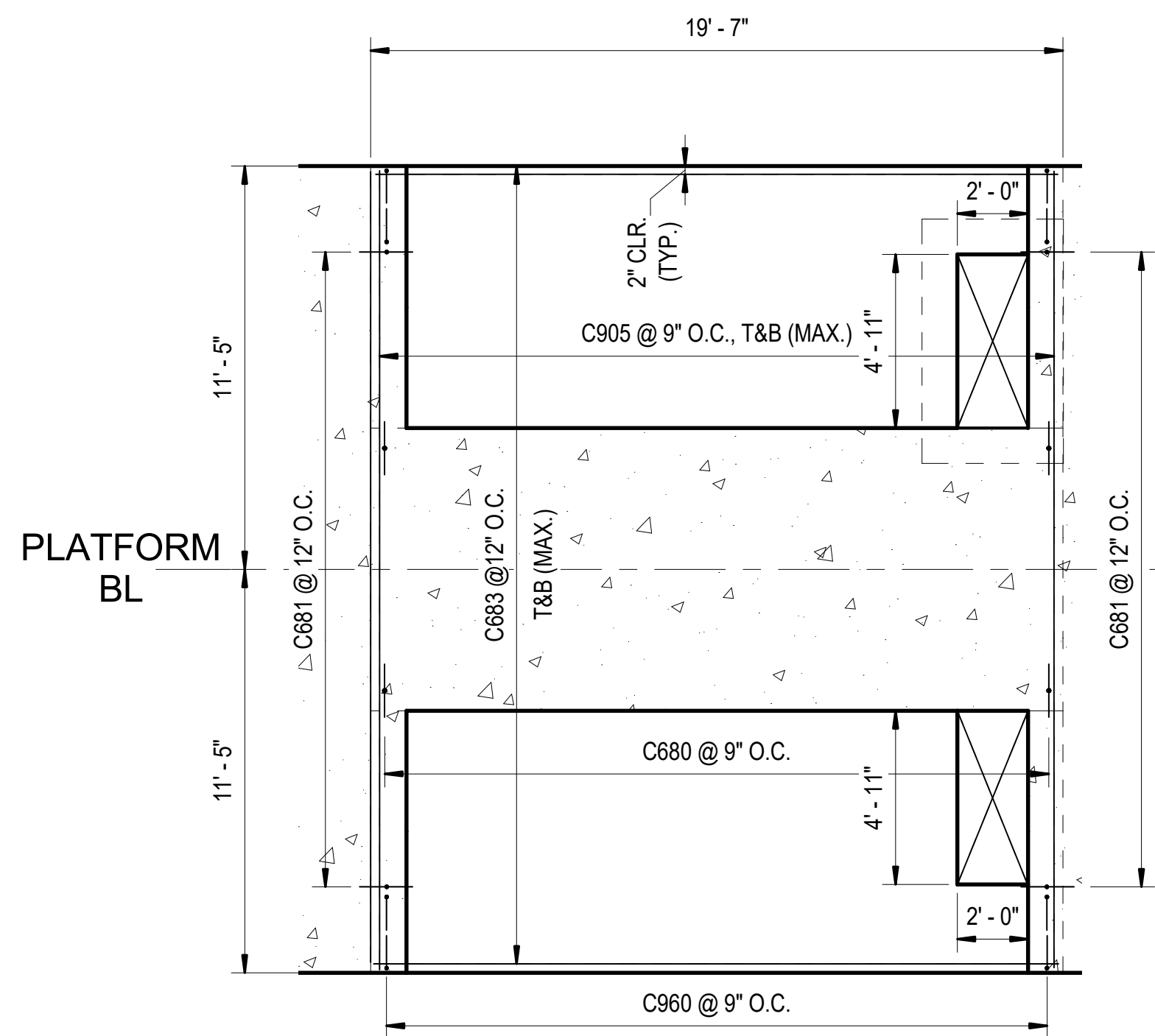
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 53

REVISIONS						SHEET NO. S-335
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			

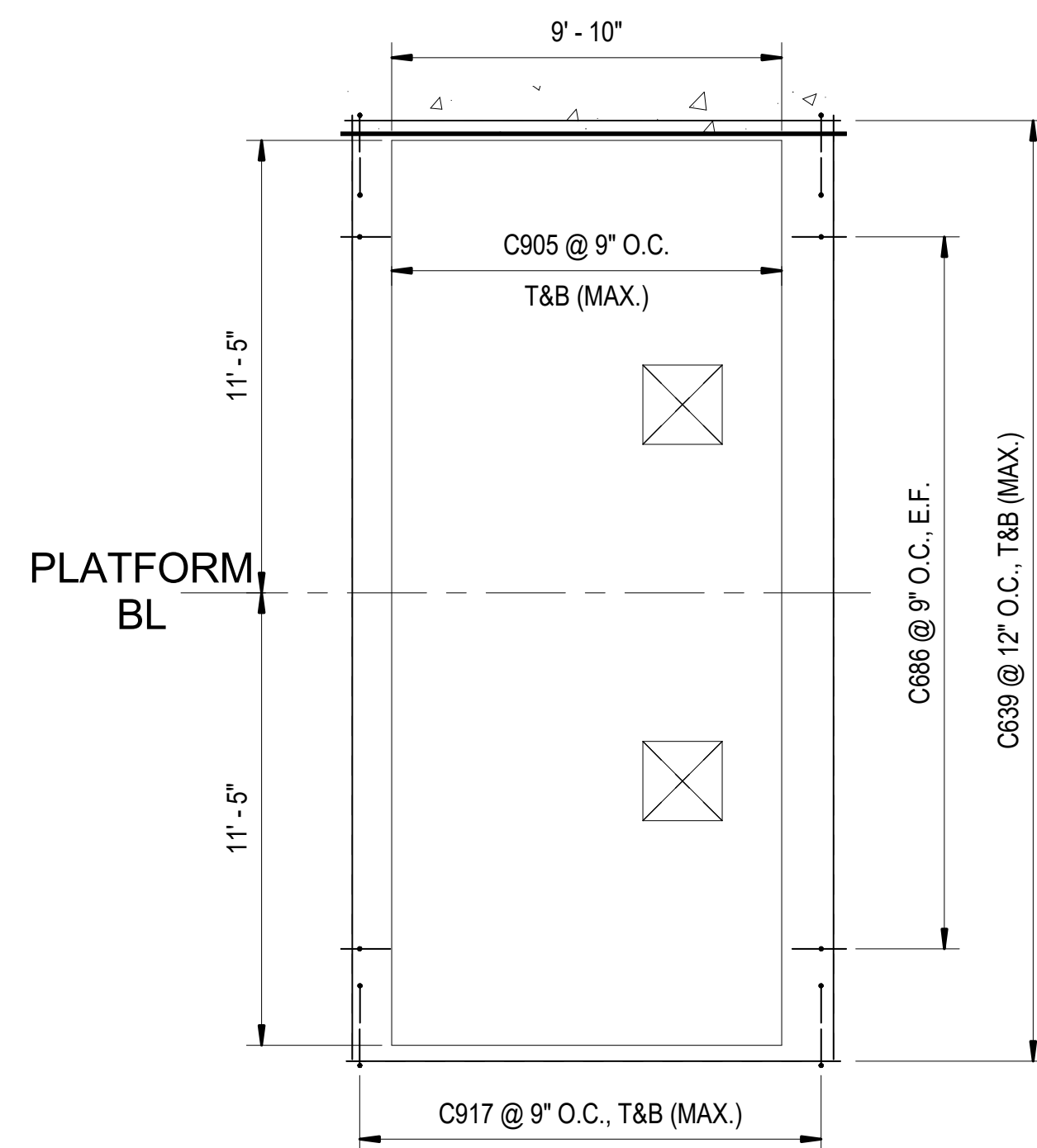




1
S-351
CONCOURSE SLAB REINFORCEMENT PLAN - 1
SCALE: 1/4" = 1'-0"



2
S-351
ESCALATOR PIT SLAB REINFORCEMENT PLAN
SCALE: 1/4" = 1'-0"



3
S-351
ELEVATOR PIT SLAB REINFORCEMENT PLAN
SCALE: 1/4" = 1'-0"



PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

4/5/2018



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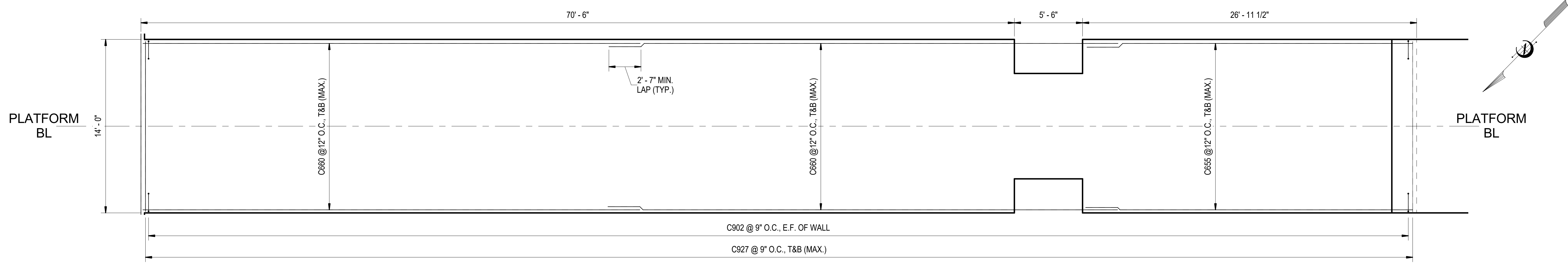
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REINFORCEMENT PLAN - ENLARGED CONCOURSE

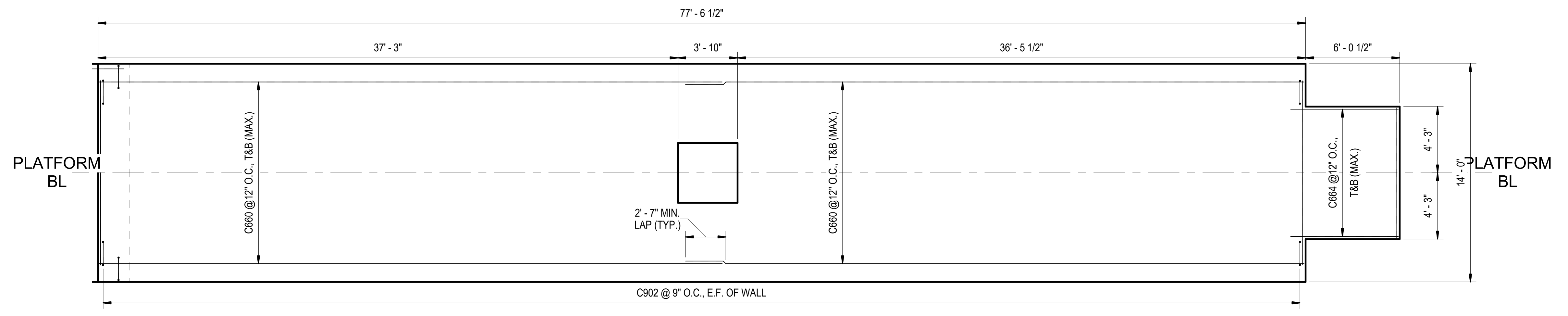
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 54

REVISIONS						SHEET NO. S-351
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



1 CONCOURSE REINFORCEMENT PLAN - 2 T.O.S. EL. = 725.67'
 S-352 SCALE: 1/4" = 1'-0"



2 CONCOURSE REINFORCEMENT PLAN - 3 T.O.S. EL. = 737.14'
 S-352 SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2

4/5/2018



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 RALEIGH

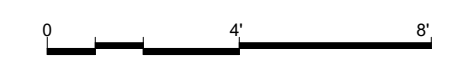
REINFORCEMENT PLAN -
 ENLARGED CONCOURSE

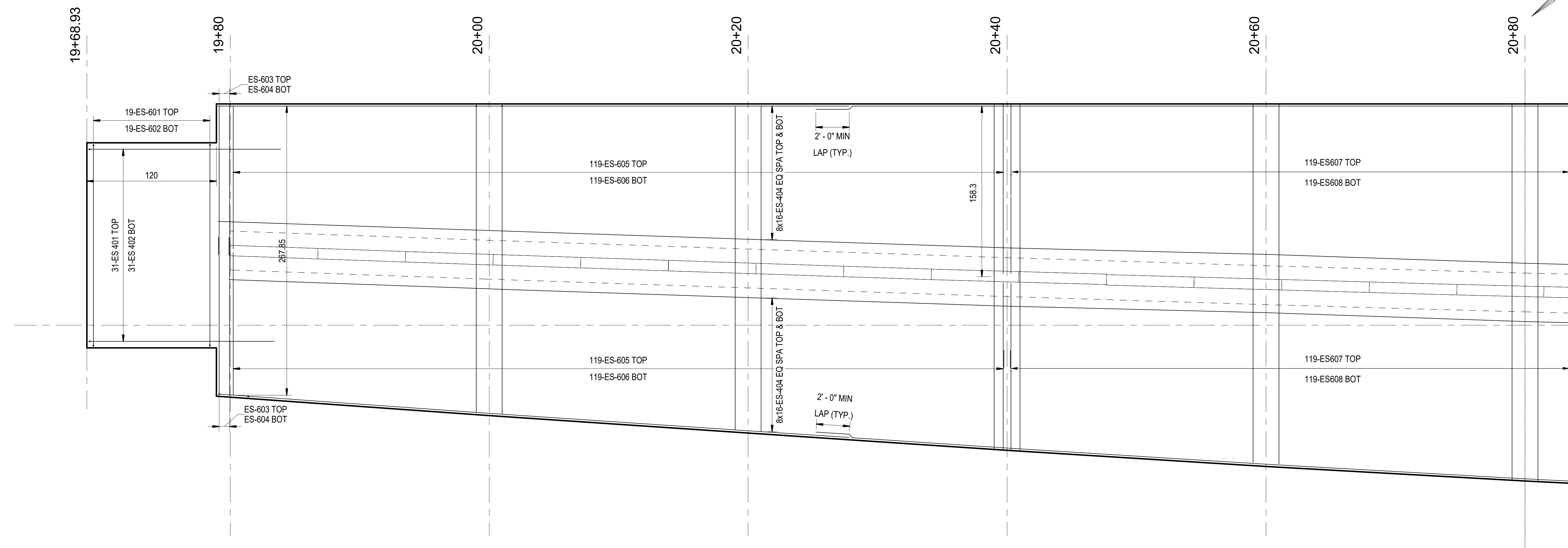
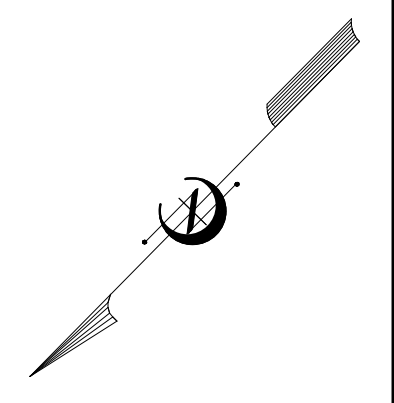
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DWG. NO. 55

REVISIONS						SHEET NO. S-352
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



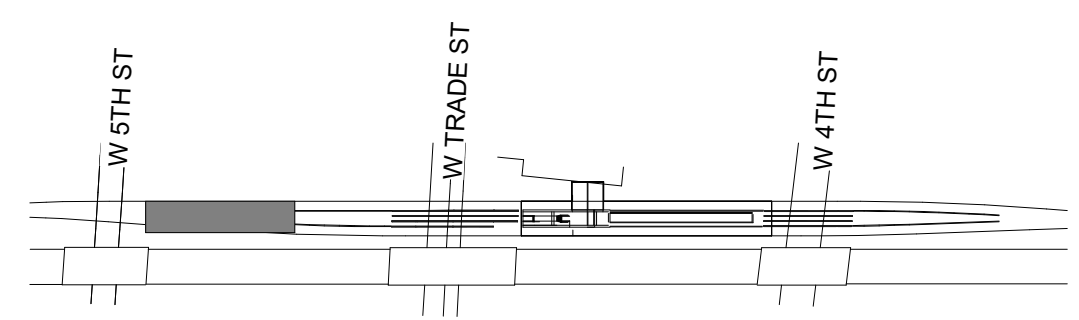


ENLARGED PLATFORM REINFORCING
 PLAN 1
 1
 S-371 SCALE: 1/4" = 1'-0"

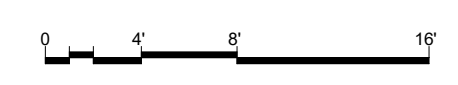
PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 8



KEY MAP
 SCALE: NTS



4/5/2018



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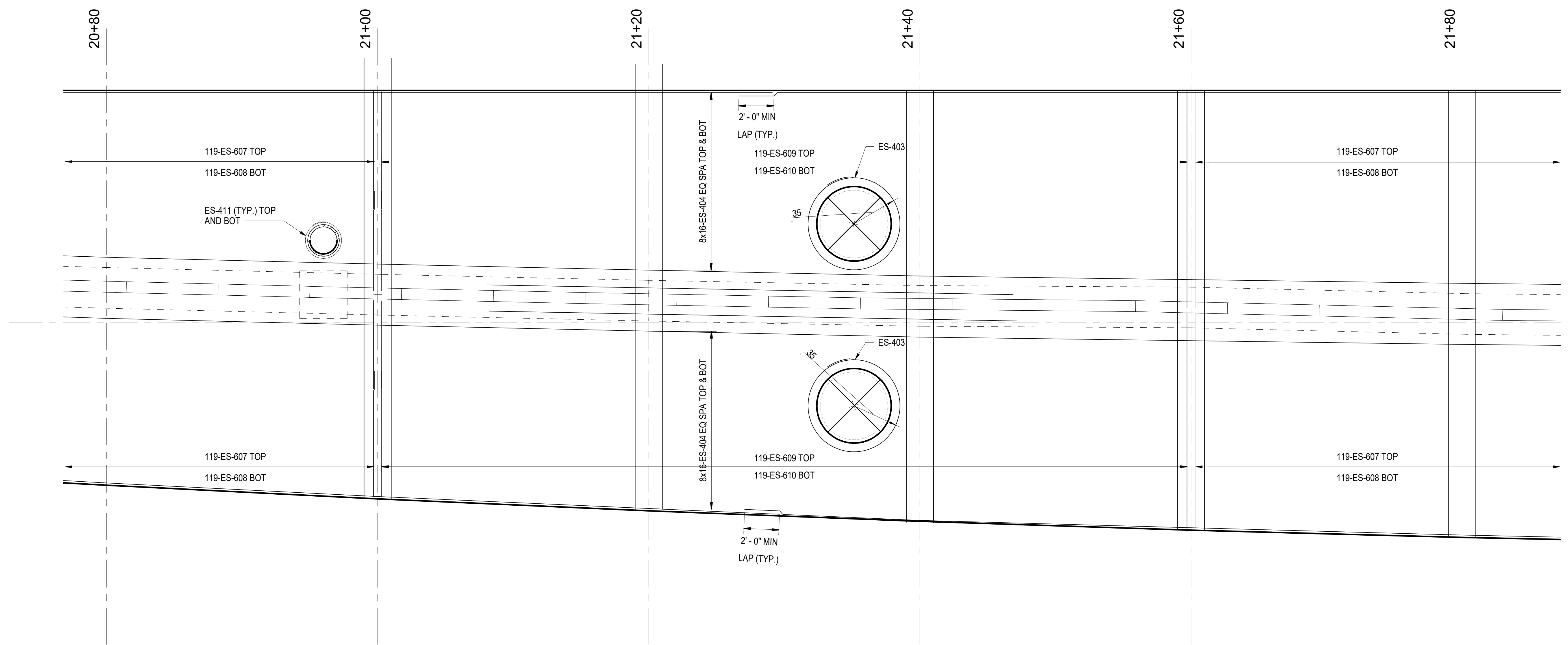
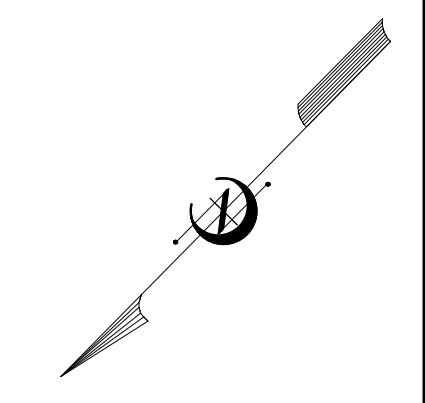
REINFORCEMENT PLAN -
 ENLARGED PLATFORM

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REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO.
 S-371
 TOTAL SHEETS
 98

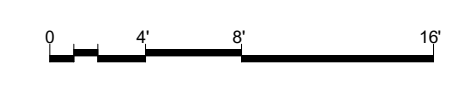
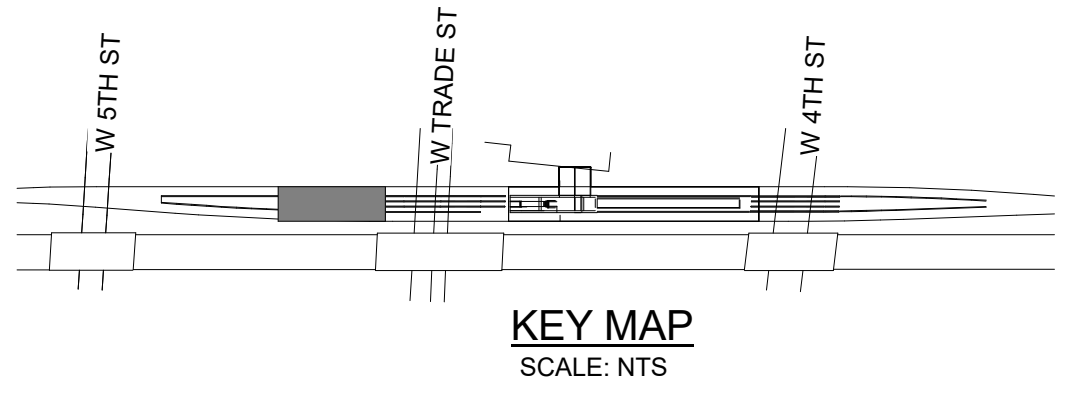


1
S-372 ENLARGED PLATFORM REINFORCING PLAN 2
SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

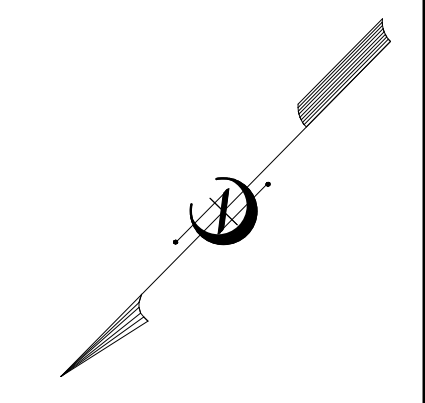
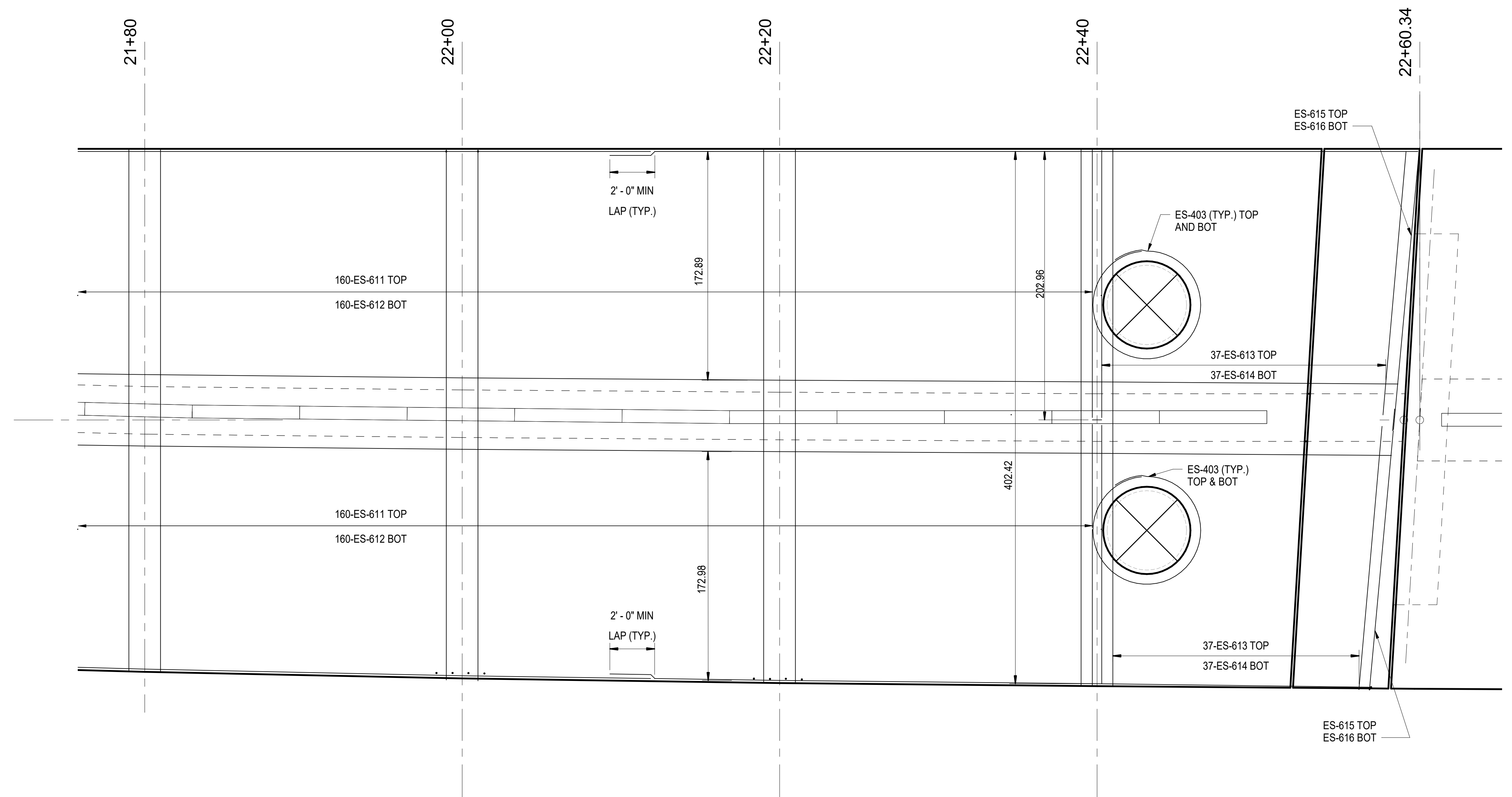
PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 8



		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH REINFORCEMENT PLAN - ENLARGED PLATFORM		SHEET NO.	
				S-372	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS		TOTAL SHEETS	
		NO.	BY	DATE	NO.
DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK		DATE: 3/27/2018 DATE: 3/27/2018	DWG. NO. 57		98

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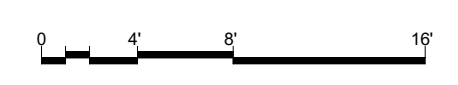
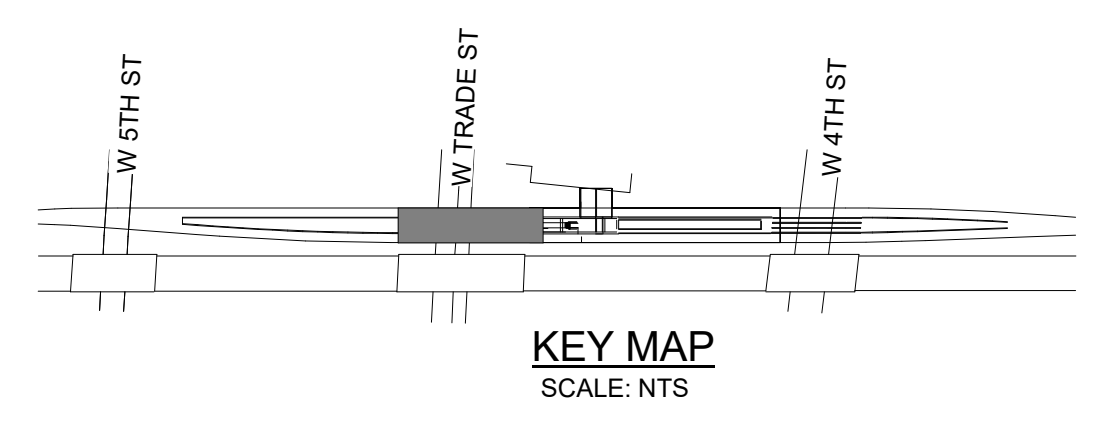


**ENLARGED PLATFORM REINFORCING
PLAN 3**
SCALE: 1/4" = 1'-0"

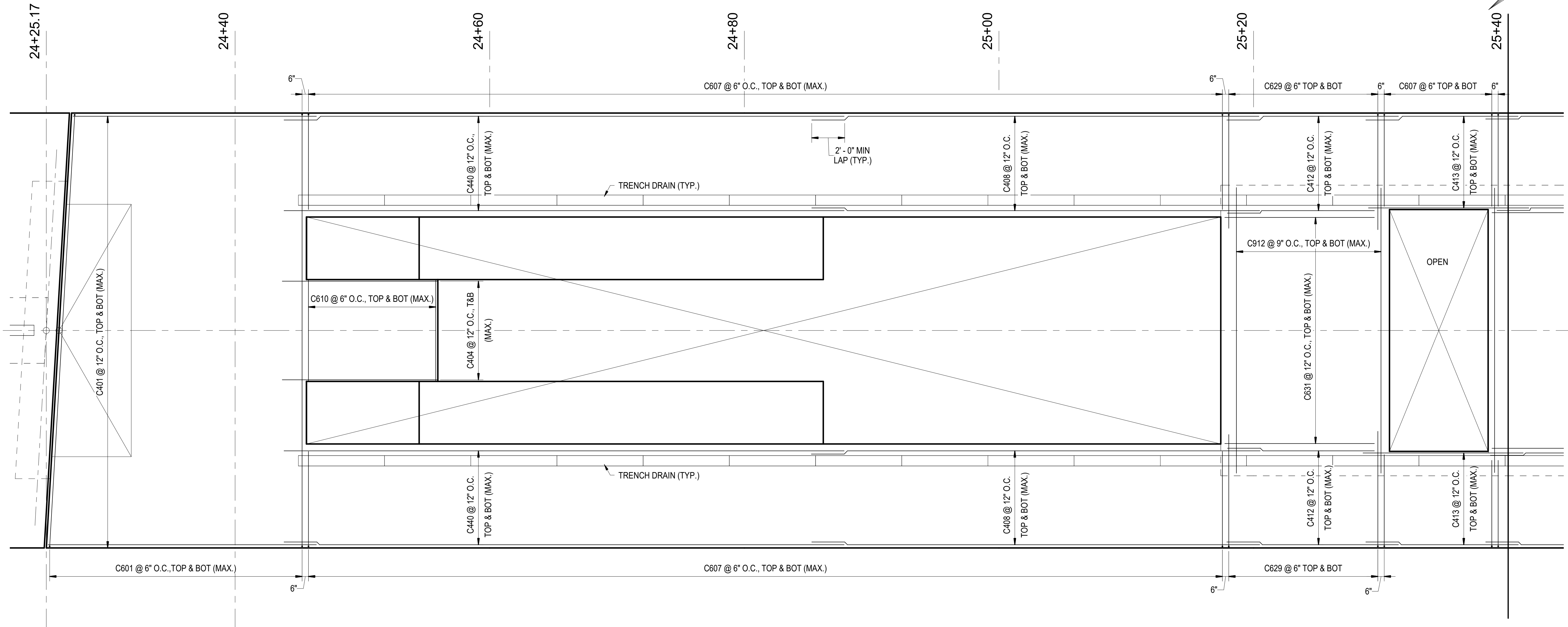
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 3 OF 8



		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH REINFORCEMENT PLAN – ENLARGED PLATFORM		SHEET NO. S-373
				TOTAL SHEETS 98
HNTB HNTB NORTH CAROLINA, P.C. <small>NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</small>		REVISIONS		
DRAWN BY <u>D. TRACZYKIEWICZ</u> CHECKED BY <u>C. PARK</u>	DATE <u>3/27/2018</u> DATE <u>3/27/2018</u>	NO. <u>1</u> NO. <u>2</u>	BY BY	DATE DATE
DWG. NO. 58				

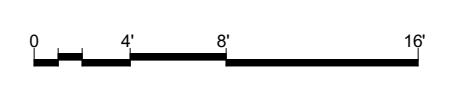
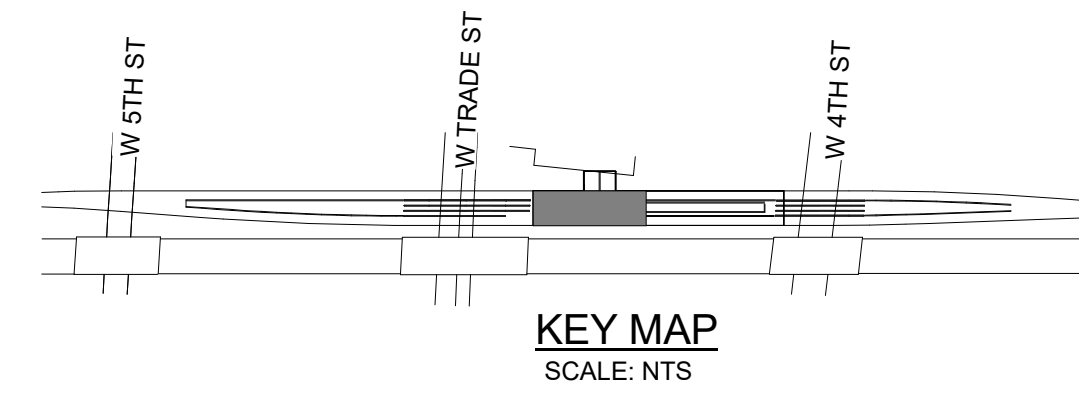


1
S-374 ENLARGED PLATFORM REINFORCING
PLAN 4
SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 4 OF 8



4/5/2018

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

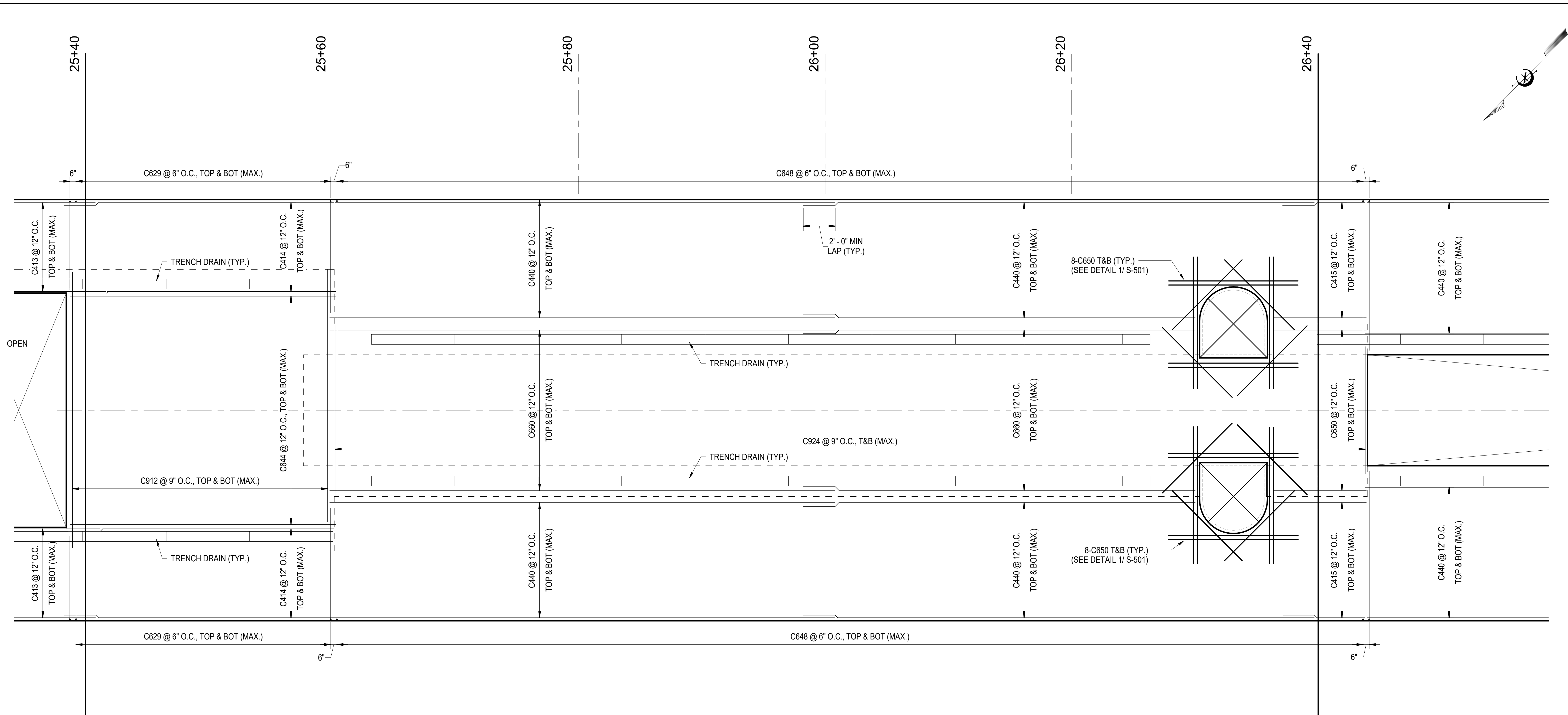
REINFORCEMENT PLAN -
ENLARGED PLATFORM

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DWG. NO. 59

REVISIONS						SHEET NO. S-374
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

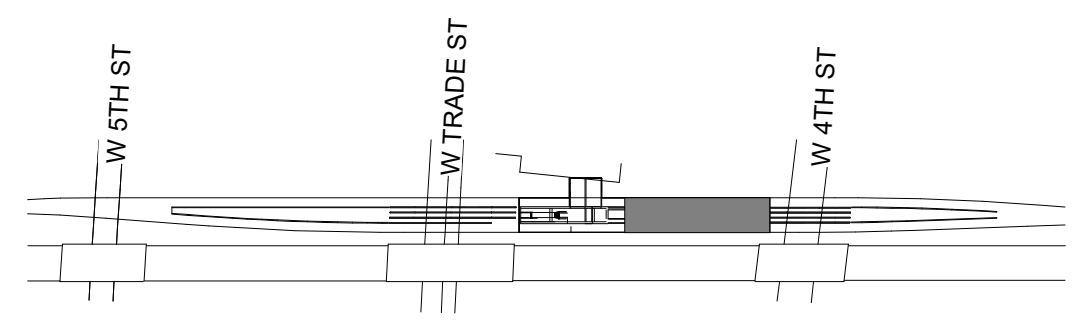


ENLARGED PLATFORM REINFORCING PLAN 5
 SCALE: 1/4" = 1'-0"

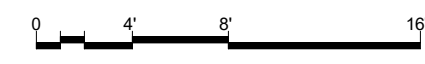
PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

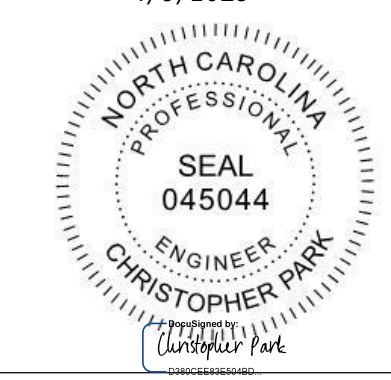
SHEET 5 OF 8



KEY MAP
SCALE: NTS



4/5/2018



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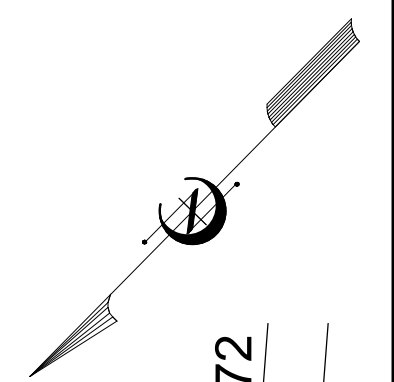
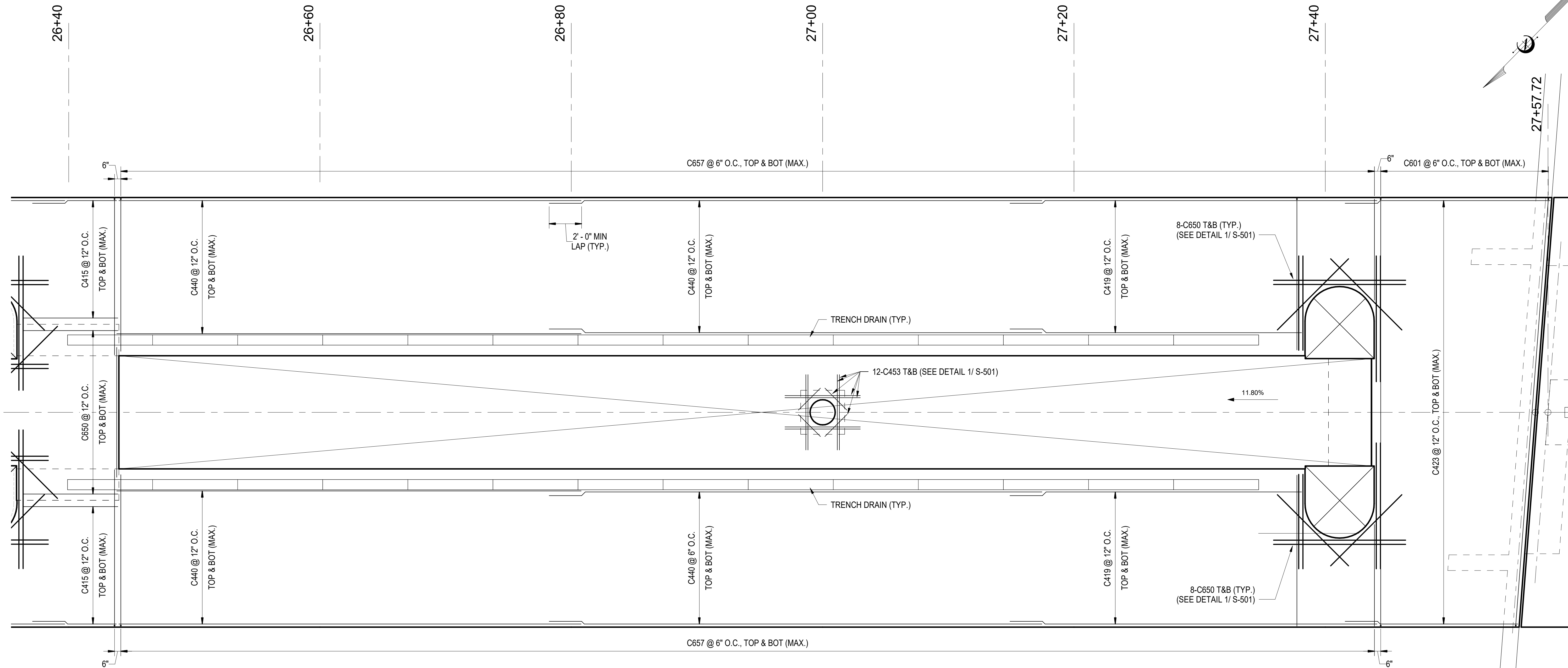
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 RALEIGH

REINFORCEMENT PLAN - ENLARGED PLATFORM

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REVISIONS						SHEET NO. S-375
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



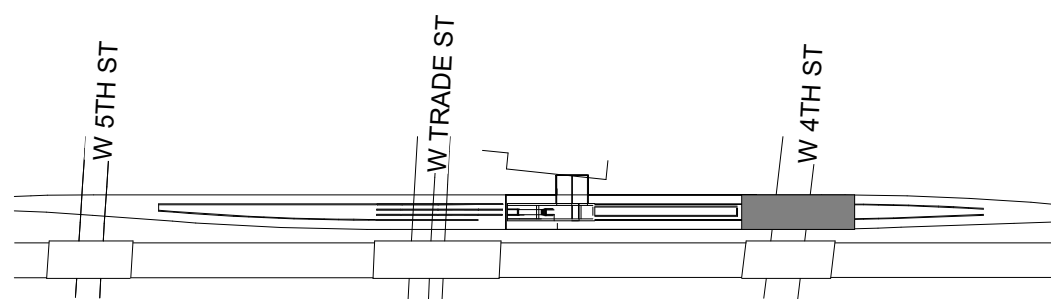
ENLARGED PLATFORM REINFORCING
PLAN 6

1
S-376 SCALE: 1/4" = 1'-0"

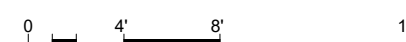
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 6 OF 8



KEY MAP
SCALE: NTS



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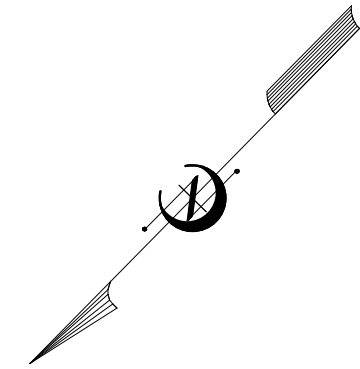
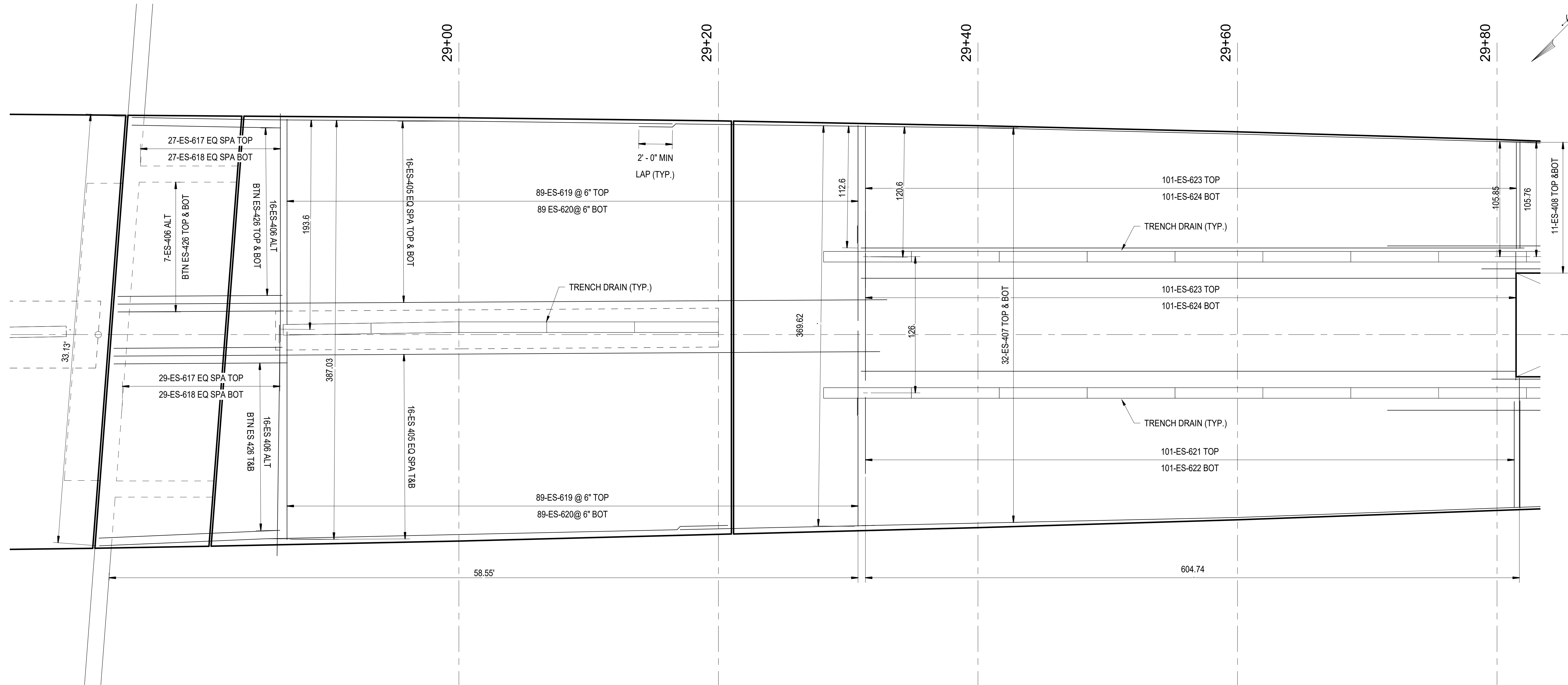
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REINFORCEMENT PLAN -
ENLARGED PLATFORM

REVISIONS						SHEET NO. S-376
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



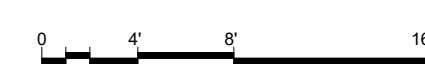
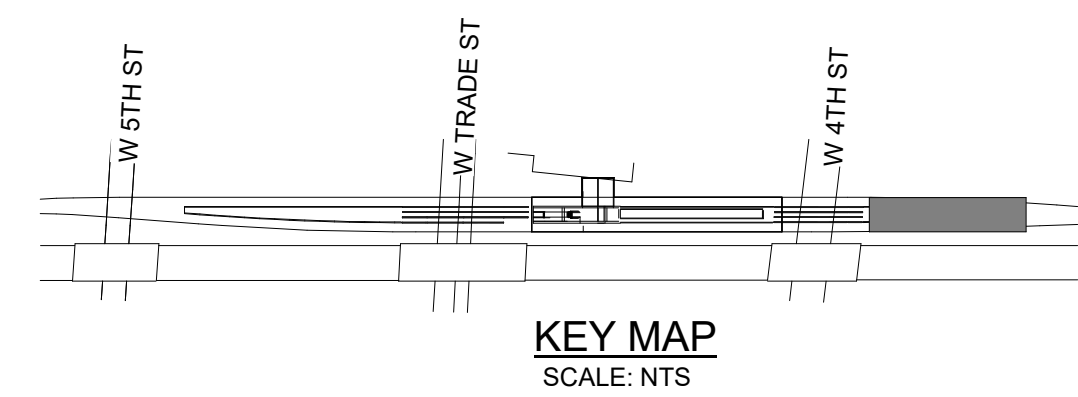
ENLARGED PLATFORM REINFORCING
PLAN 7

1
S-377 SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 7 OF 8



4/5/2018



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DEPARTMENT OF TRANSPORTATION
RALEIGH

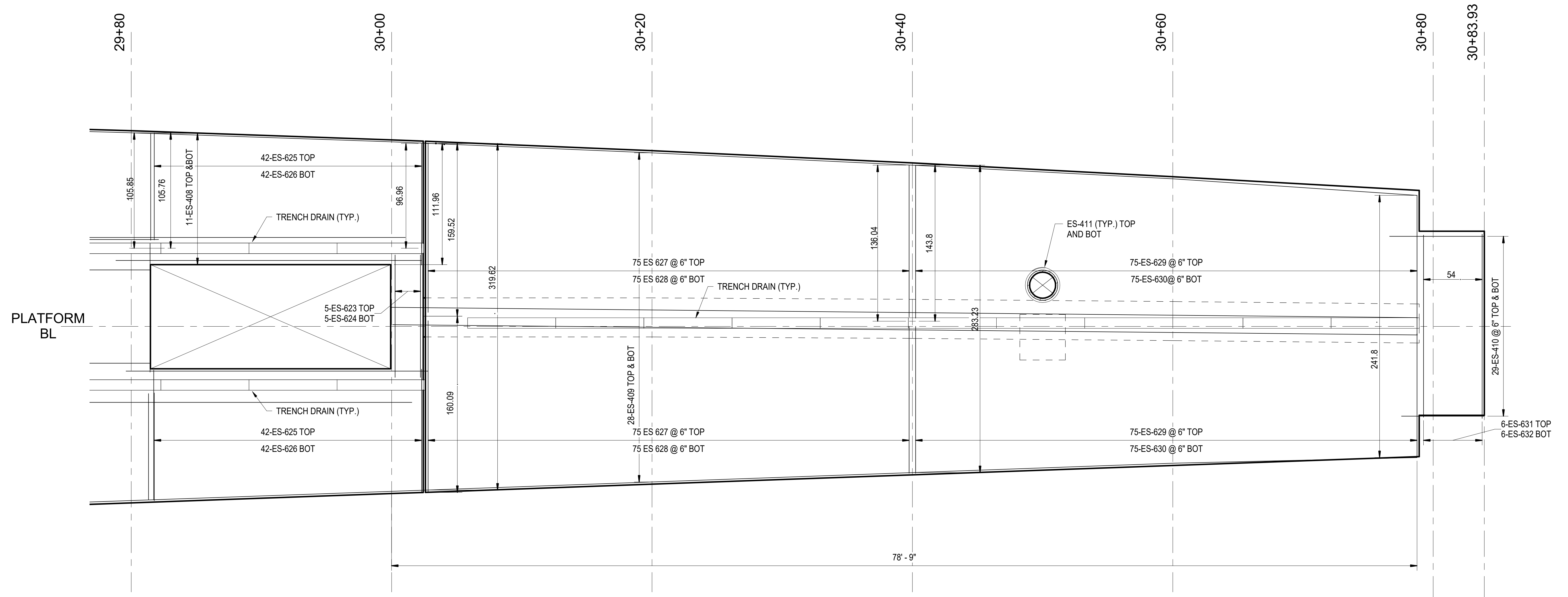
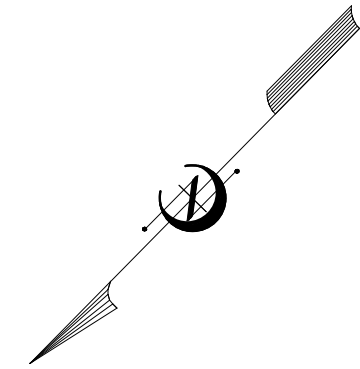
REINFORCEMENT PLAN -
ENLARGED PLATFORM

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DWG. NO. 62

REVISIONS						SHEET NO. S-377
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



ENLARGED PLATFORM REINFORCING
PLAN 8

1
S-378 SCALE: 1/4" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 8 OF 8

4/5/2018



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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

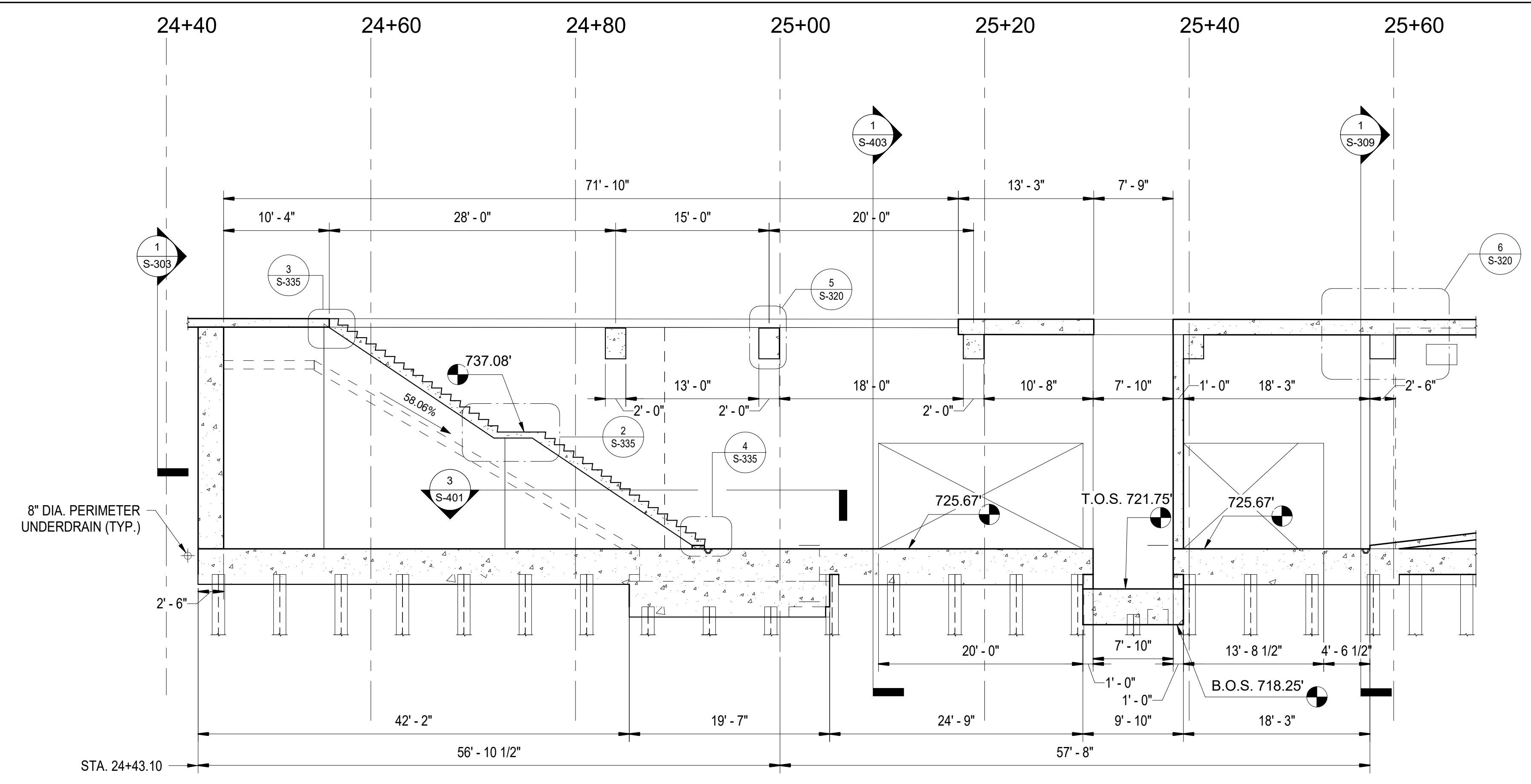
REINFORCEMENT PLAN -
ENLARGED PLATFORM

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CHECKED BY: C. PARK DATE: 3/27/2018

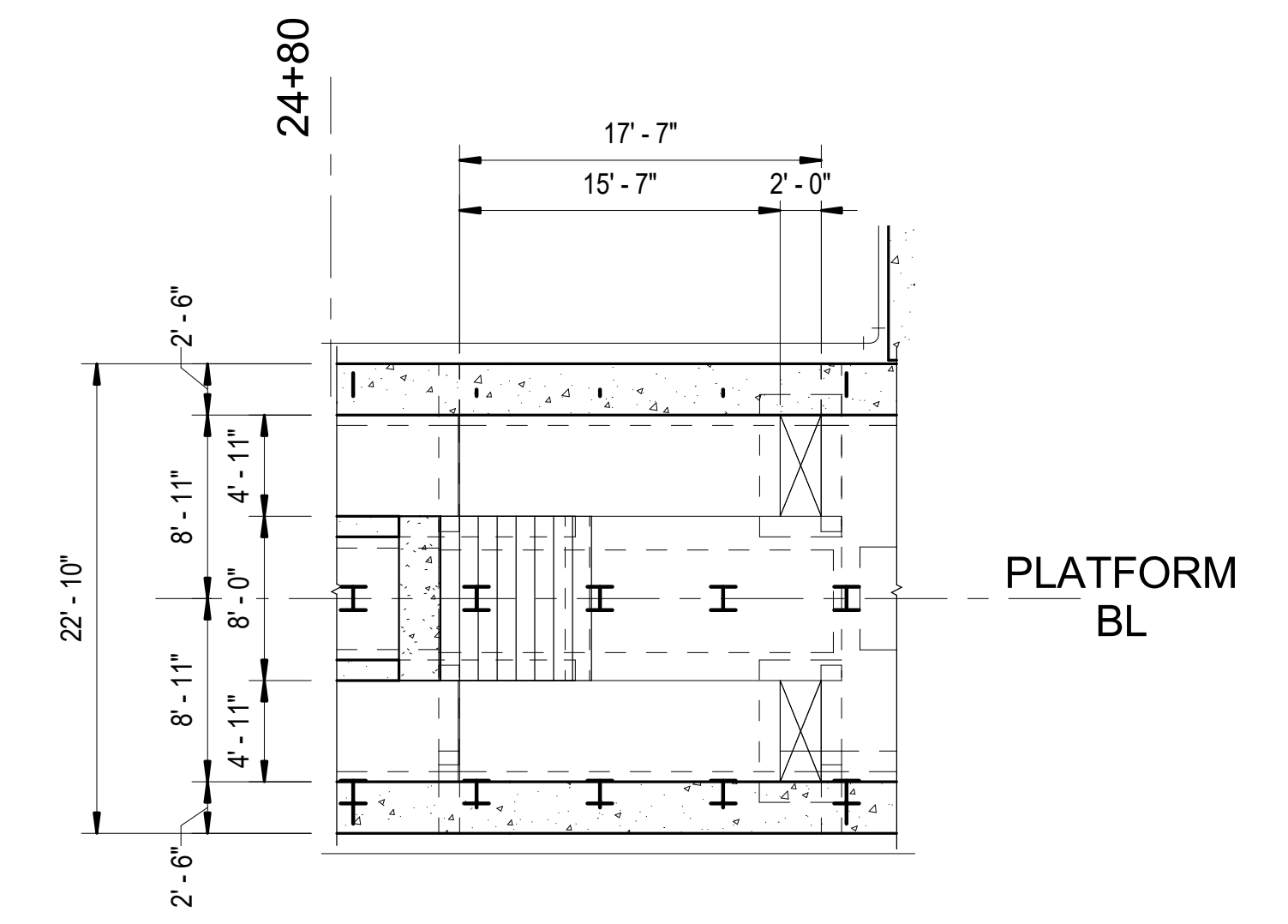
DWG. NO. 63

REVISIONS						SHEET NO. S-378
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



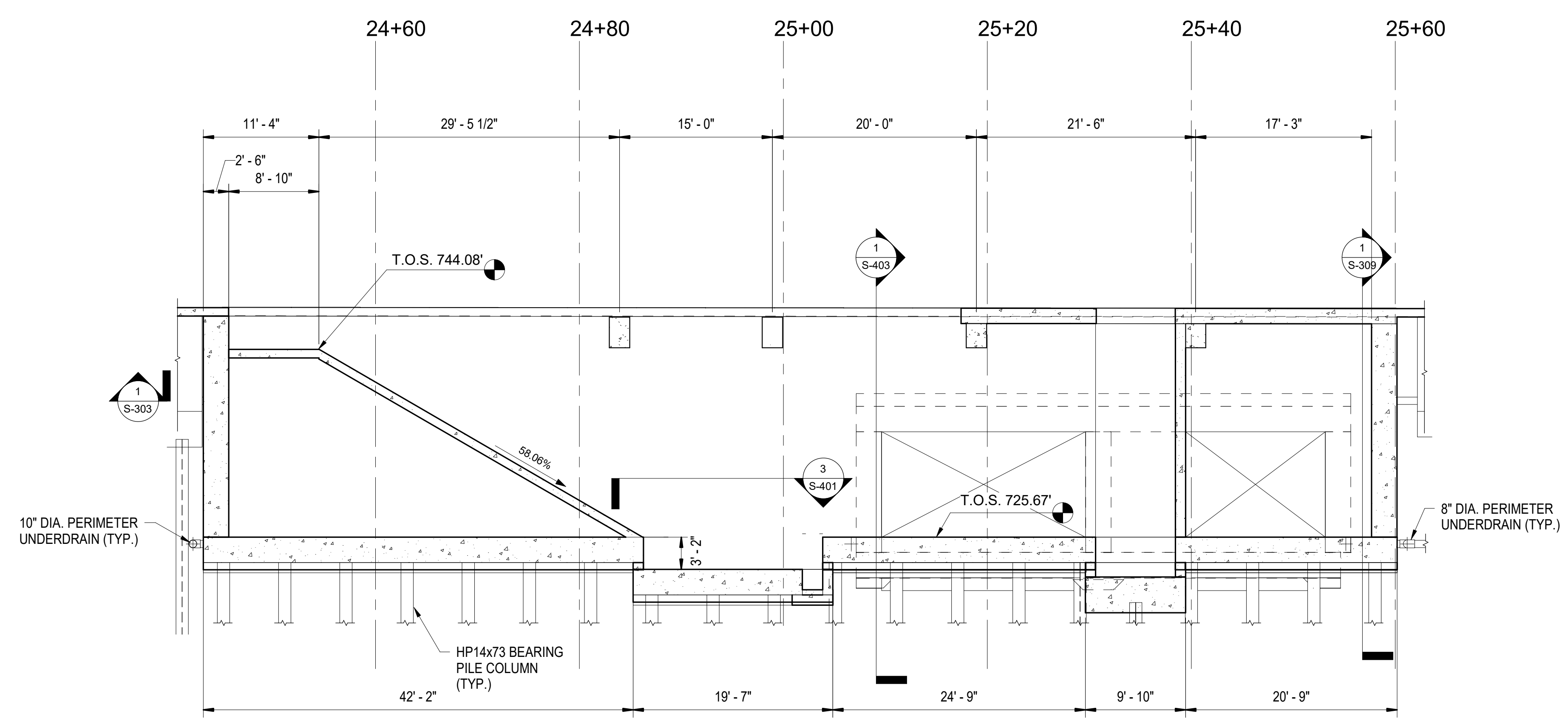
1
S-401
SCALE: 1/8" = 1'-0"

CONCOURSE LONGITUDINAL SECTION AT STAIRS



3
S-401
SCALE: 1/8" = 1'-0"

LOWER ESCALATOR PIT FOUNDATION PLAN



2
S-401
SCALE: 1/8" = 1'-0"

CONCOURSE LONGITUDINAL SECTION AT ESCALATOR

- NOTES:**
- THE CONTRACTOR SHALL UNDERCUT THE AREA UNDER THE CONCRETE BASE SLAB 5'-0" BELOW THE BOTTOM OF SLAB. BACKFILL THE EXCAVATION IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR BACKFILLING AROUND STRUCTURES.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-



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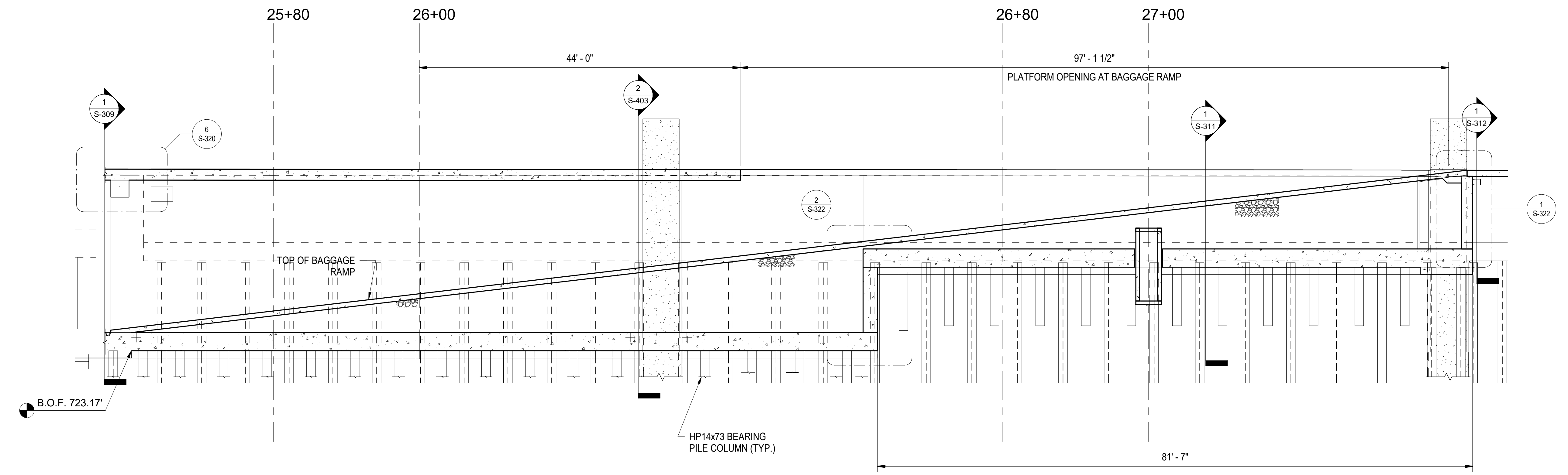
DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 64

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

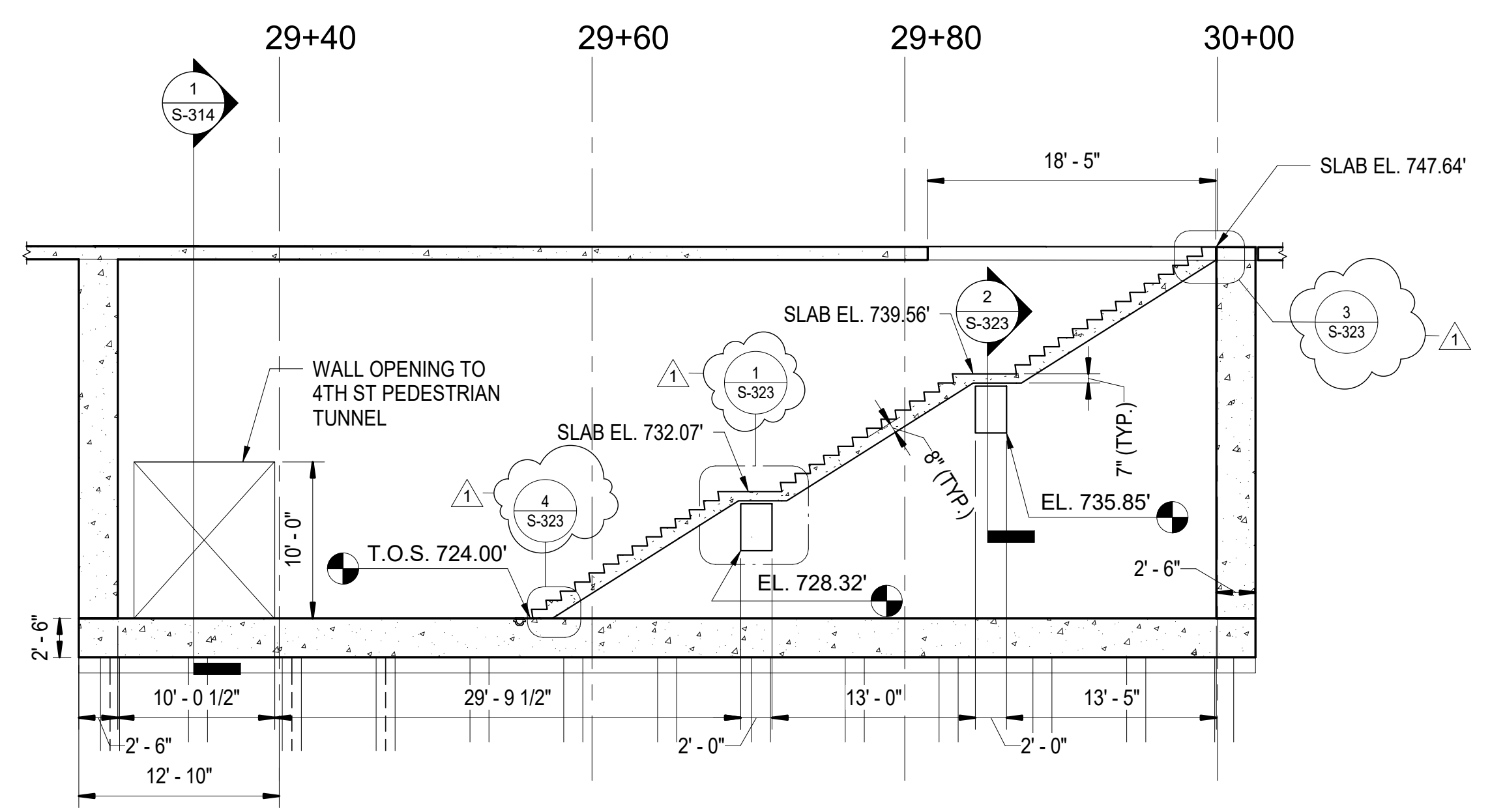
LONGITUDINAL SECTION - CONCOURSE

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-401
1			3			TOTAL SHEETS
2			4			98



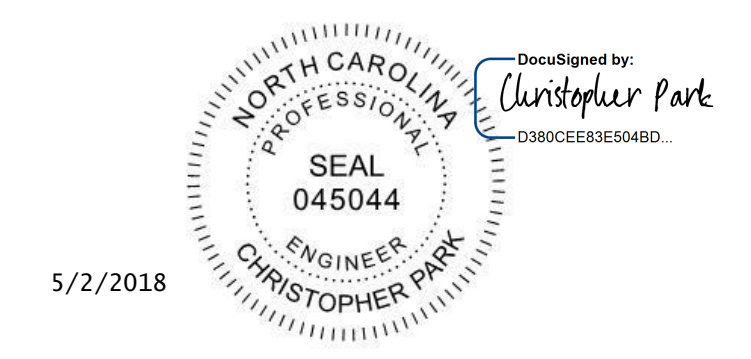


1 BAGGAGE RAMP WALL ELEVATION - 1
S-402 SCALE: 1/8" = 1'-0"



2 4TH STREET EGRESS STAIR
LONGITUDINAL SECTION
S-402 SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

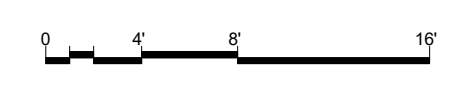


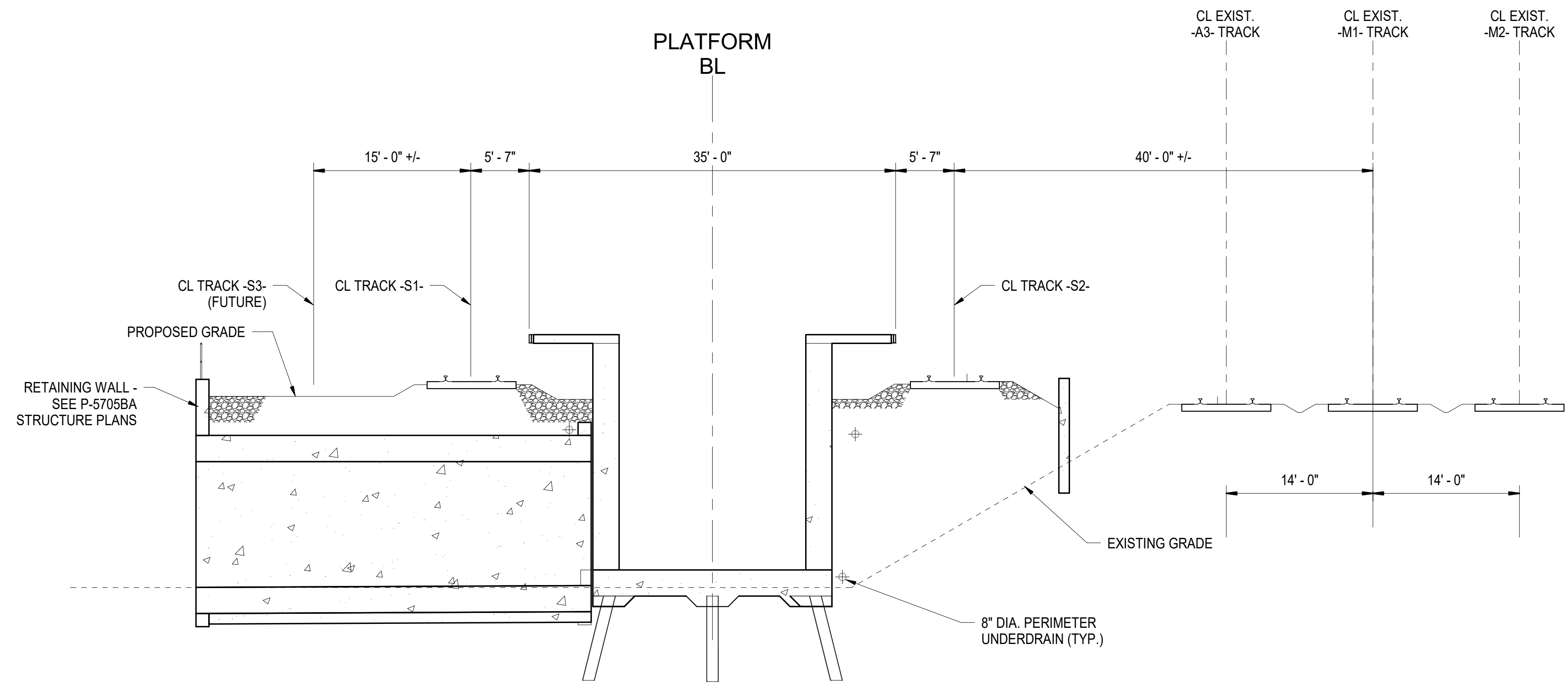
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
LONGITUDINAL SECTION -
BAGGAGE RAMP

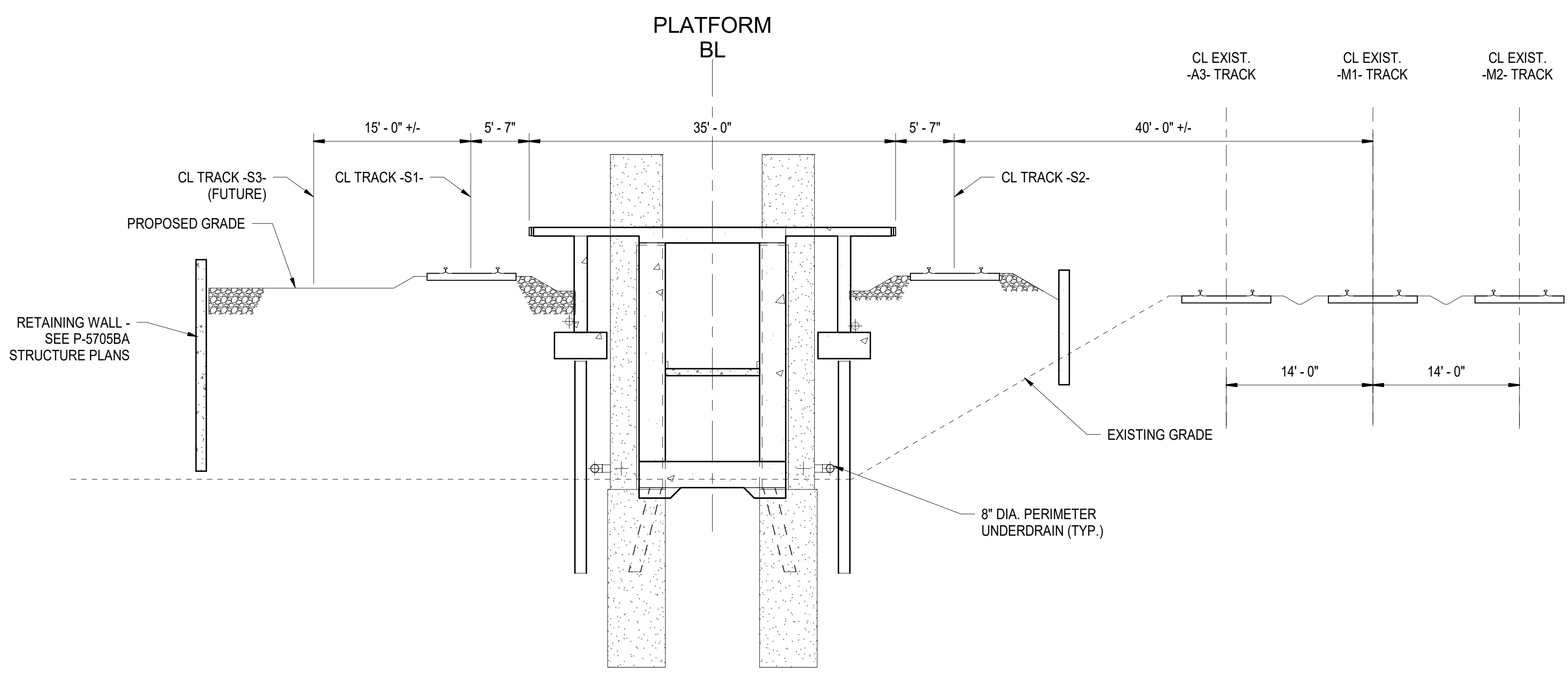
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DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 65

REVISIONS						SHEET NO. S-402
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			





1
S-403 OVERALL CONCOURSE SECTION AT STA. 25+10
SCALE: 1/8" = 1'-0"



2
S-403 OVERALL CONCOURSE SECTION AT STA. 26+30
SCALE: 1/8" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



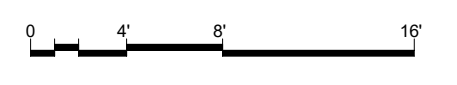
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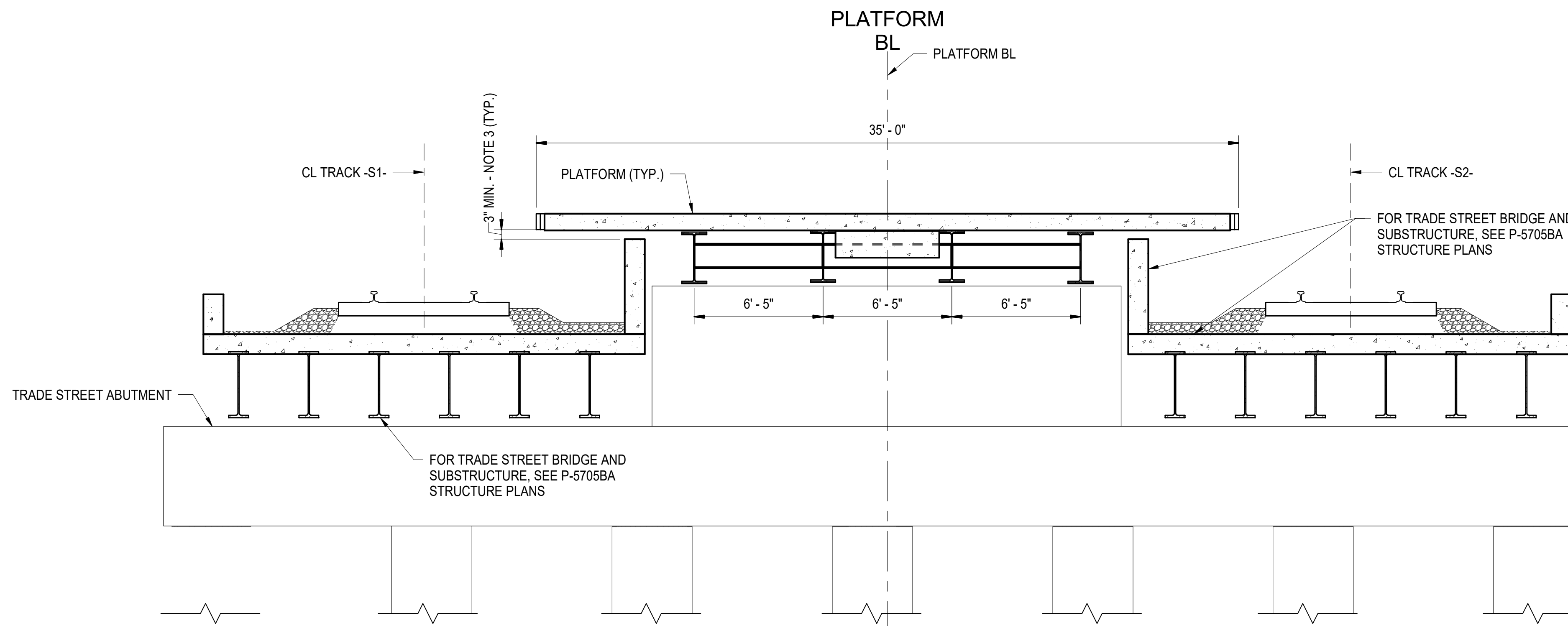
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DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018

DWG. NO. 66

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO. S-403
TRANSVERSE SECTIONS - CONCOURSE AND BAGGAGE RAMP						
REVISIONS						TOTAL SHEETS 98
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			

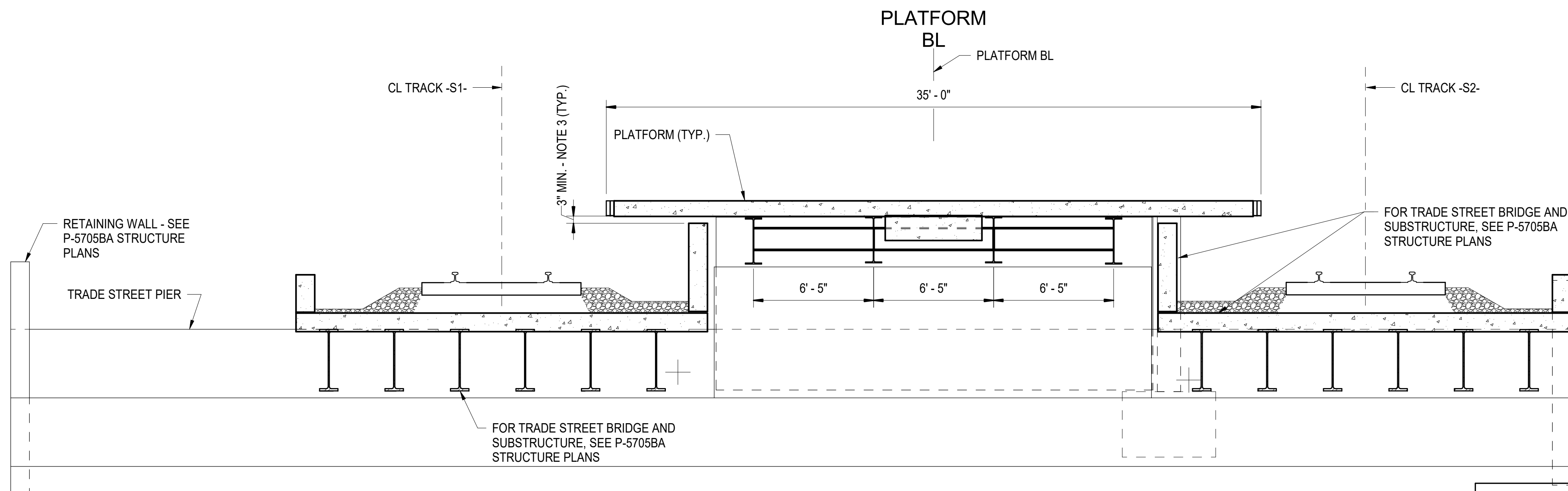




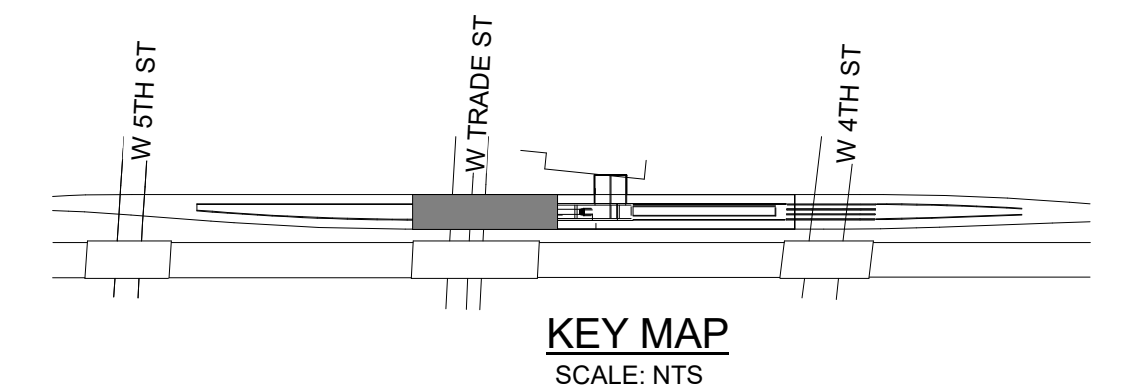
1 TRADE STREET SECTION AT ABUTMENT
S-404 SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TRADE STREET RAIL BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
2. FOR TRACK GEOMETRY, SEE P-5705BA GRADING PLANS.
3. FOR TRADE STREET BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
4. MINIMUM GAP REMAINING AFTER CONSIDERING ALL PLATFORM DEFLECTIONS.



2 TRADE STREET SECTION AT PIER
S-404 SCALE: 1/4" = 1'-0"



PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



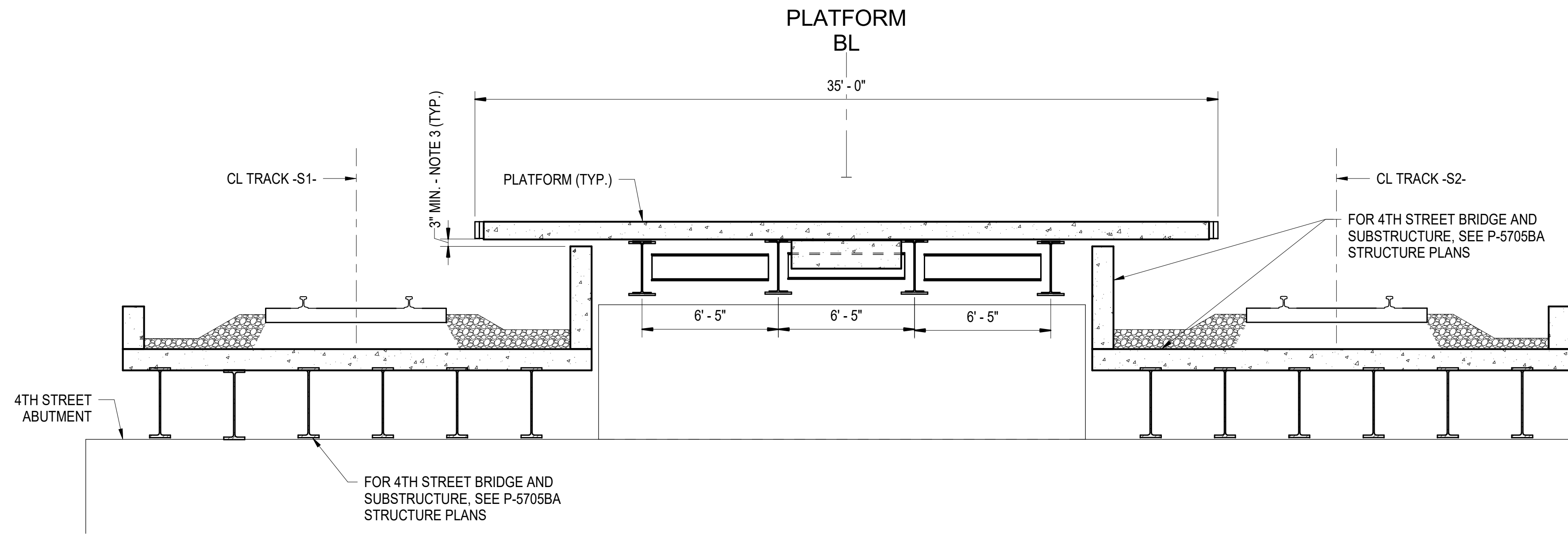
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DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018 DWG. NO. 67

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
TRANSVERSE SECTIONS -
TRADE STREET BRIDGE

REVISIONS						SHEET NO. S-404
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

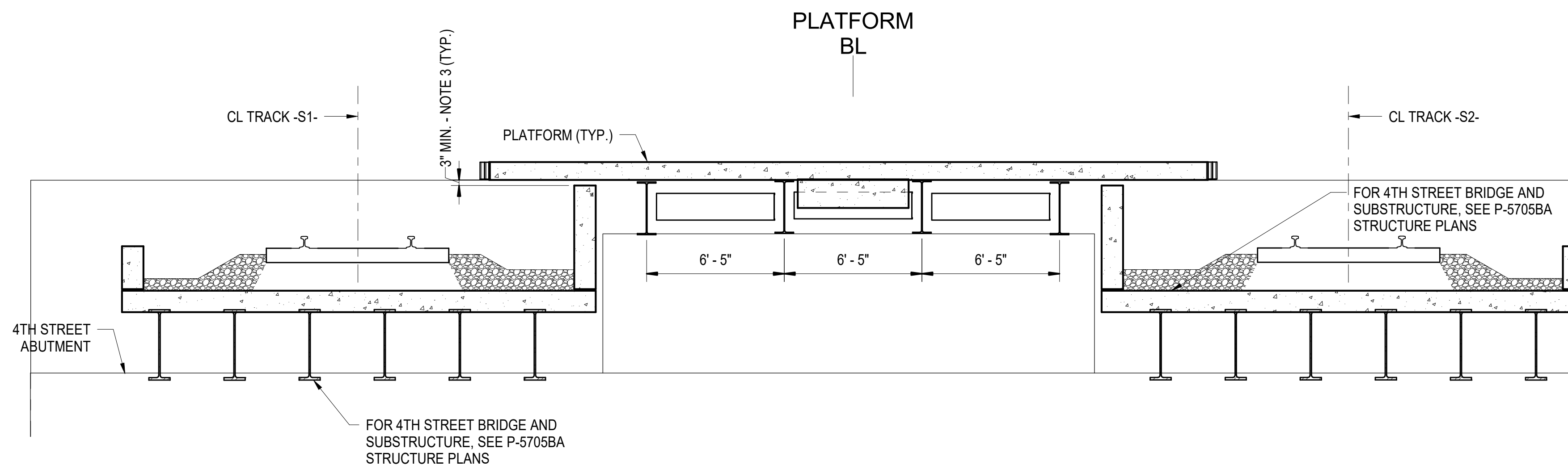




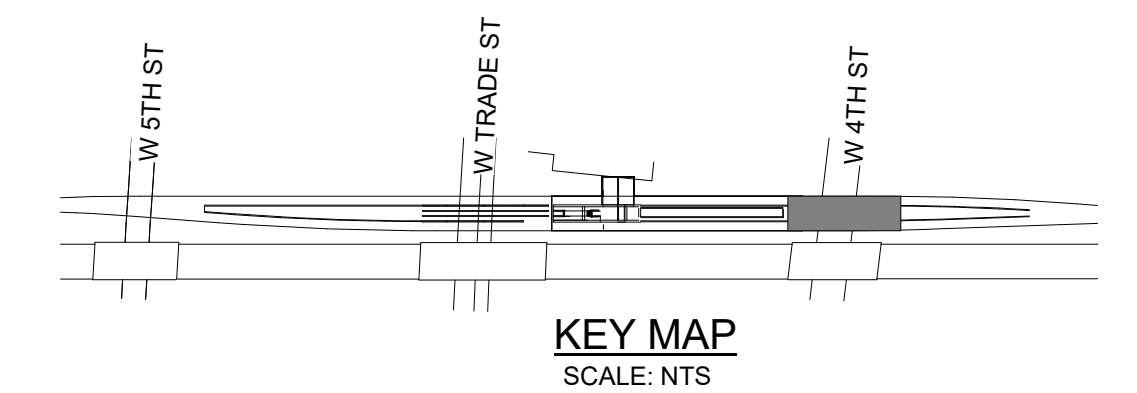
1 4TH STREET SECTION AT ABUTMENT
S-405 SCALE: 1/4" = 1'-0"

NOTES:

1. FOR 4TH STREET RAIL BRIDGE AND SUBSTRUCTURE, SEE P-5705BA STRUCTURE PLANS.
2. FOR TRACK GEOMETRY, SEE P-5705BA GRADING PLANS.
3. MINIMUM GAP REMAINING AFTER CONSIDERING ALL PLATFORM DEFLECTIONS.



2 4TH STREET SECTION AT PIER
S-405 SCALE: 1/4" = 1'-0"



PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

4/5/2018



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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRANSVERSE SECTIONS - 4TH
STREET BRIDGE

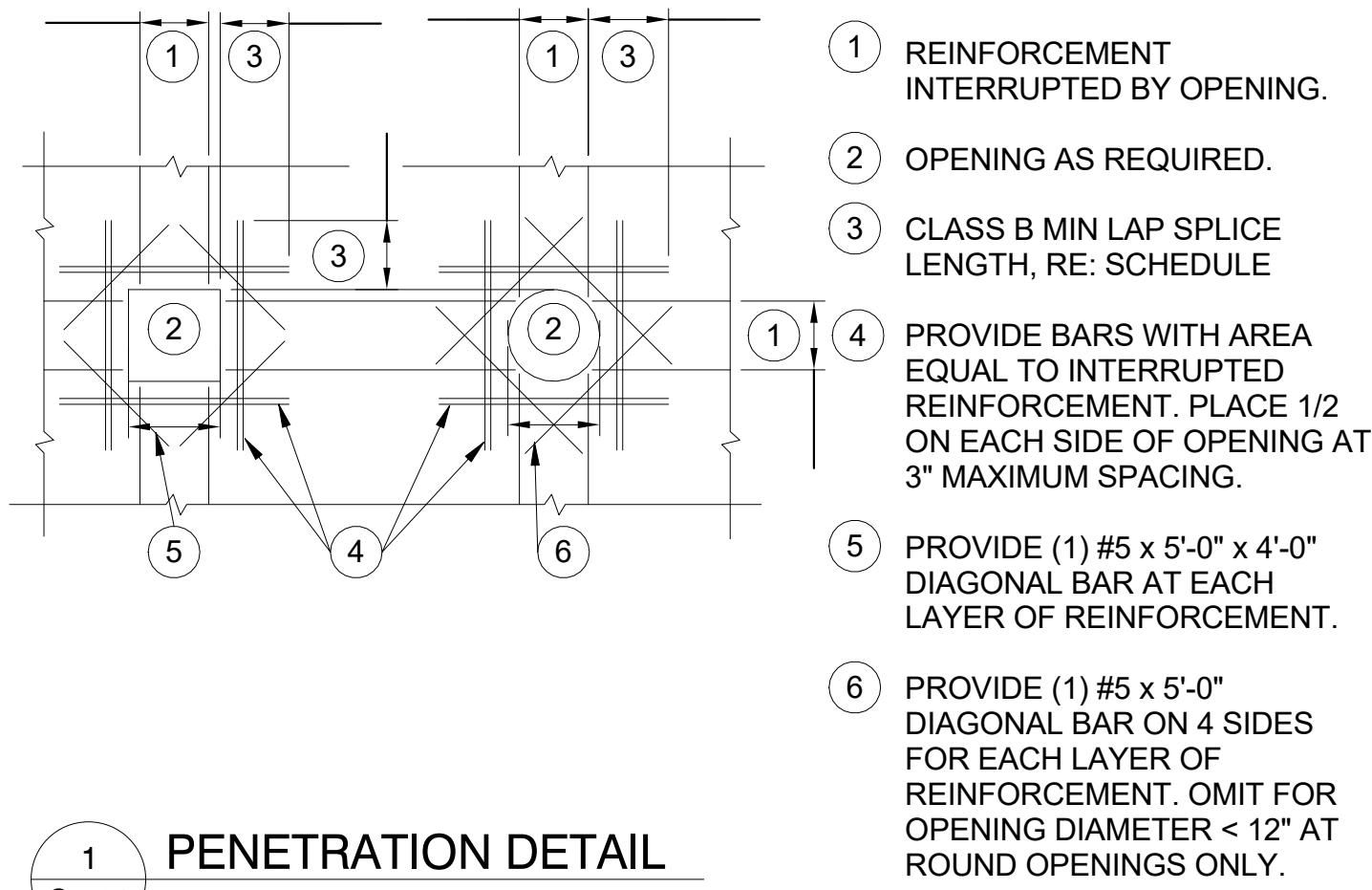
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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018

DWG. NO. 68

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-405
1			3			TOTAL SHEETS
2			4			98

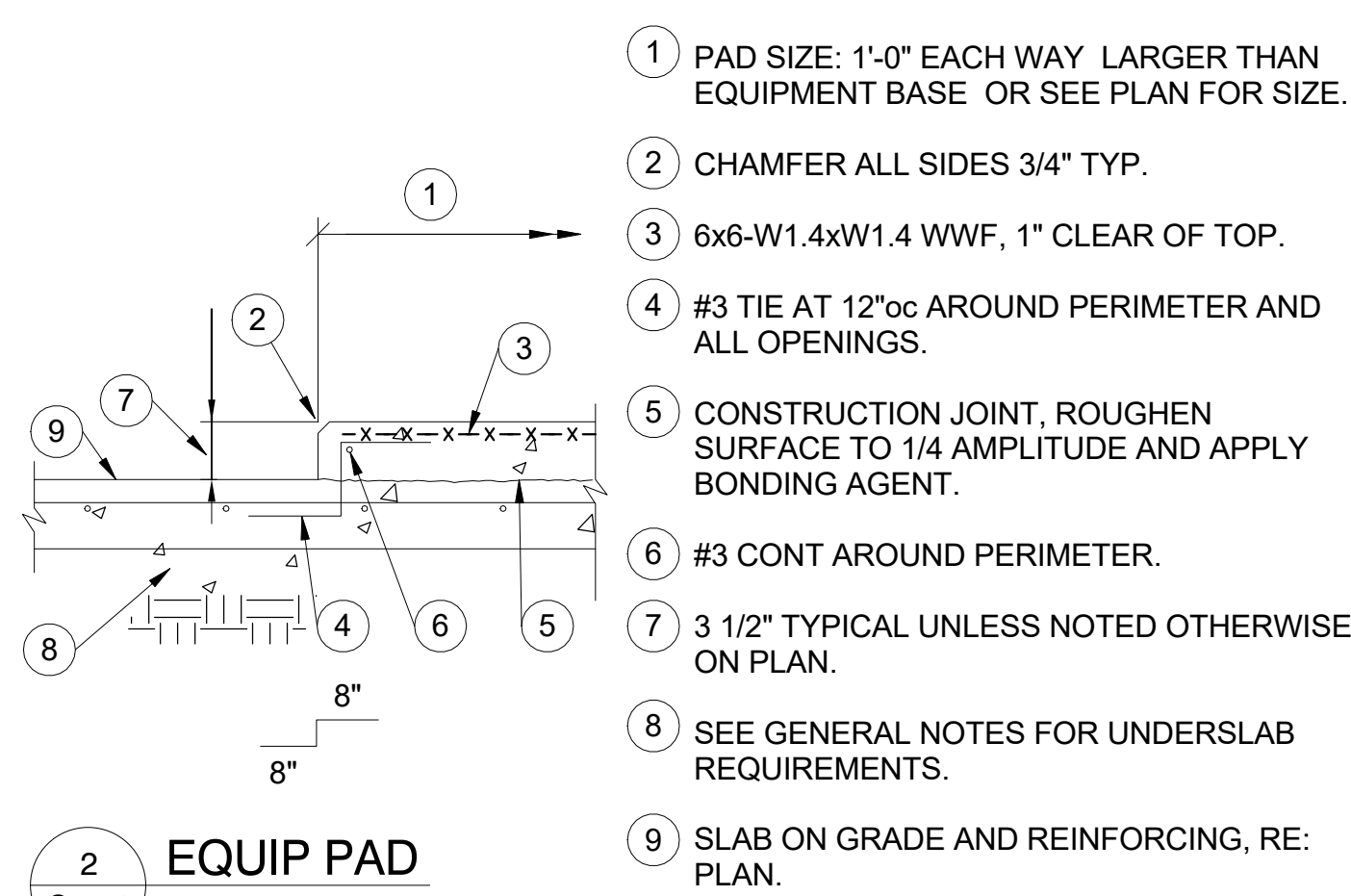




1 S-501 PENETRATION DETAIL

TYPICAL PENETRATION /ENCASEMENT DETAIL

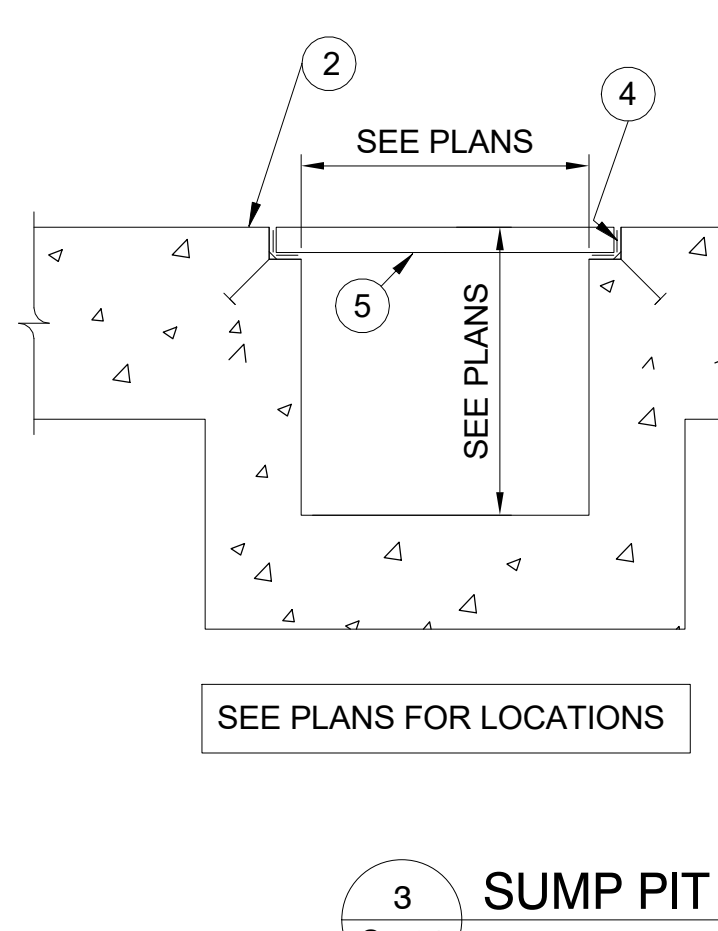
- 1 REINFORCEMENT INTERRUPTED BY OPENING.
- 2 OPENING AS REQUIRED.
- 3 CLASS B MIN LAP SPLICE LENGTH, RE: SCHEDULE
- 4 PROVIDE BARS WITH AREA EQUAL TO INTERRUPTED REINFORCEMENT. PLACE 1/2 ON EACH SIDE OF OPENING AT 3" MAXIMUM SPACING.
- 5 PROVIDE (1) #5 x 5'-0" x 4'-0" DIAGONAL BAR AT EACH LAYER OF REINFORCEMENT.
- 6 PROVIDE (1) #5 x 5'-0" DIAGONAL BAR ON 4 SIDES FOR EACH LAYER OF REINFORCEMENT. OMIT FOR OPENING DIAMETER < 12" AT ROUND OPENINGS ONLY.



2 S-501 EQUIP PAD

EQUIP PAD ON SLAB ON GRADE

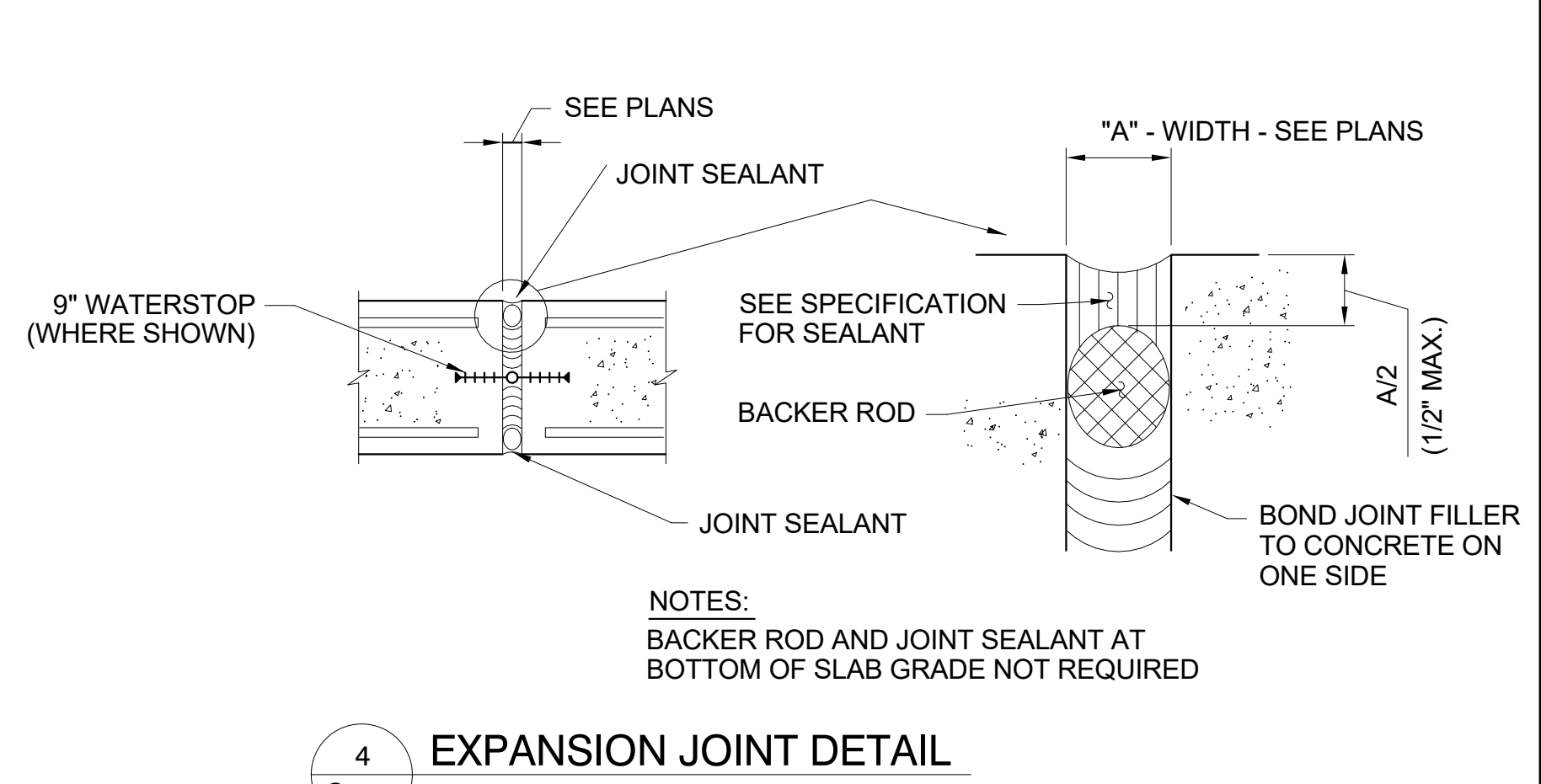
- 1 PAD SIZE: 1'-0" EACH WAY LARGER THAN EQUIPMENT BASE OR SEE PLAN FOR SIZE.
- 2 CHAMFER ALL SIDES 3/4" TYP.
- 3 6x6-W1.4xW1.4 WWF, 1" CLEAR OF TOP.
- 4 #3 TIE AT 12"oc AROUND PERIMETER AND ALL OPENINGS.
- 5 CONSTRUCTION JOINT, ROUGHEN SURFACE TO 1/4 AMPLITUDE AND APPLY BONDING AGENT.
- 6 #3 CONT AROUND PERIMETER.
- 7 3 1/2" TYPICAL UNLESS NOTED OTHERWISE ON PLAN.
- 8 SEE GENERAL NOTES FOR UNDERSLAB REQUIREMENTS.
- 9 SLAB ON GRADE AND REINFORCING, RE: PLAN.



3 S-501 SUMP PIT

SEE PLANS FOR LOCATIONS

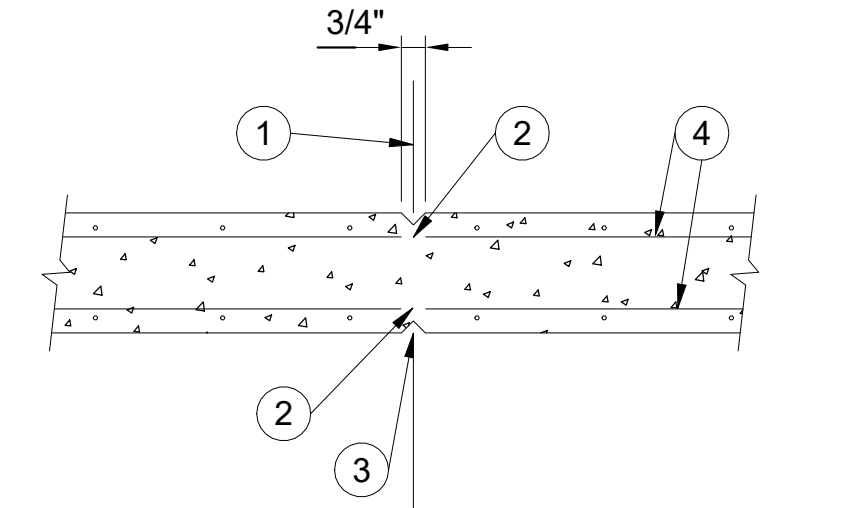
- 1 ELEVATOR PIT SLAB THICKNESS, RE: PLAN.
- 2 SEE PLAN FOR ELEVATION.
- 3 REFERENCE M/E/P AND ARCHITECTURAL DRAWINGS FOR BLOCKOUTS.
- 4 L2x2x3/16 AT FOUR CORNERS W/ 1/2"Øx4" STUDS AT 12"oc, GALV.
- 5 GRATE.



4 S-501 EXPANSION JOINT DETAIL

NOTES:
BACKER ROD AND JOINT SEALANT AT BOTTOM OF SLAB GRADE NOT REQUIRED

- NOTES:
- 1. REQUIRED ONLY WHERE WALLS ARE SUBJECT TO FLUID PRESSURE FROM INSIDE.
 - 2. - * CLASS B MIN LAP SPLICE LEMATH, RE: SCHEDULE

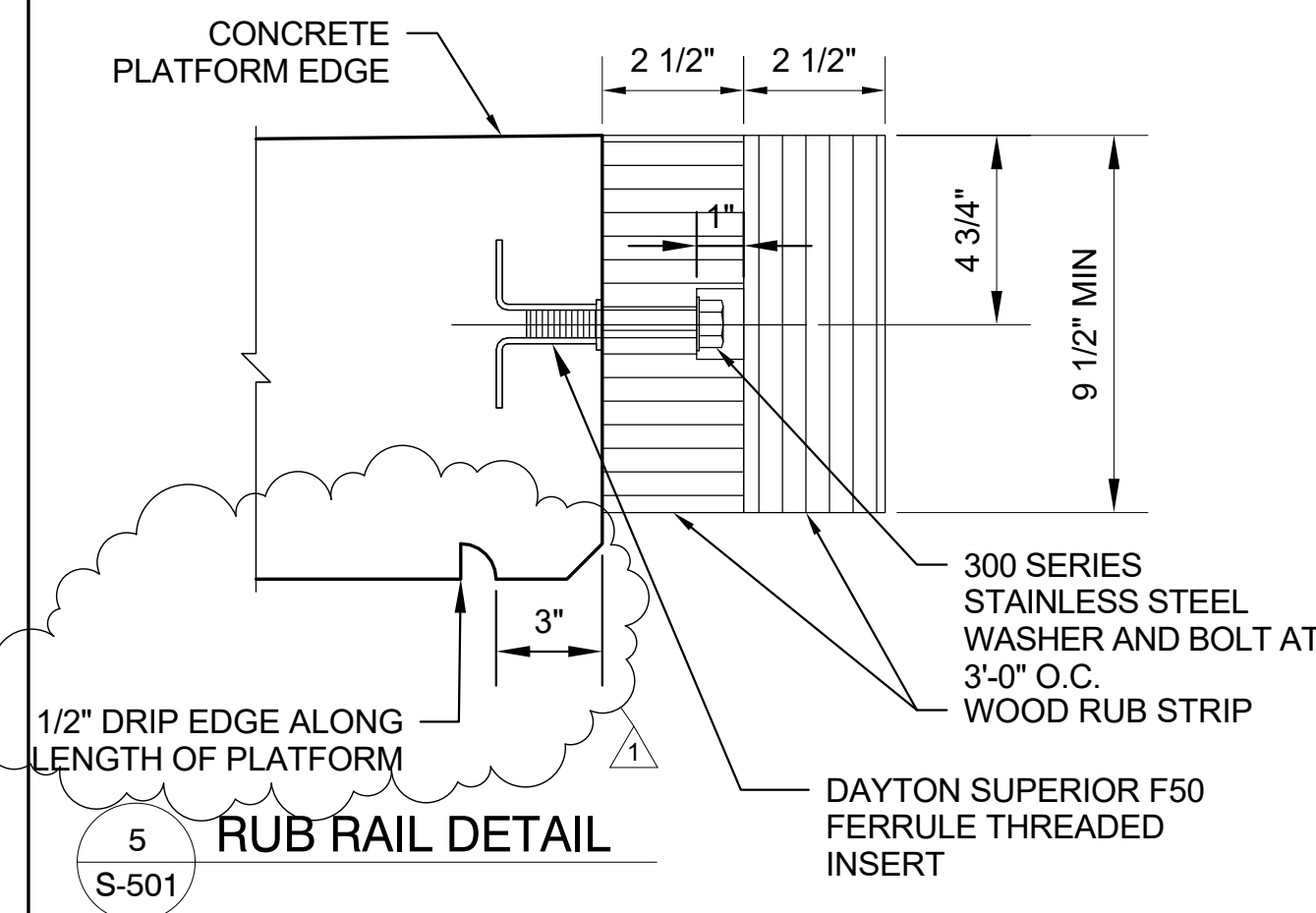


- 1 CENTERLINE CONTROL JOINT. RE: GENERAL NOTES FOR MAXIMUM SPACING.
- 2 CUT EVERY OTHER HORIZONTAL BAR AT JOINT CENTERLINE, BOTH FACES, AND CENTERED REINFORCING.
- 3 RUSTICATION JOINT AT EACH FACE. COORDINATE LOCATION.
- 4 HORIZONTAL REINFORCING BARS.

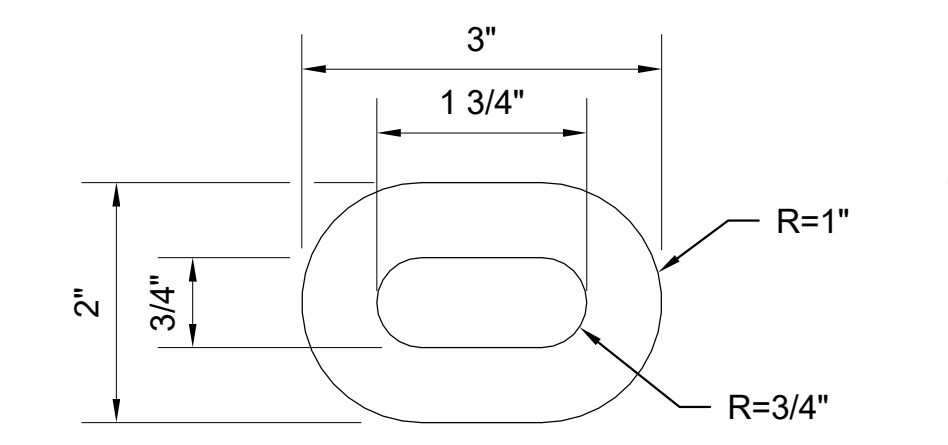
NOTE: THIS DETAIL WILL NOT BE CONSIDERED A CONTROL JOINT UNLESS HORIZONTAL BARS ARE CUT AS INDICATED ABOVE.

TYPICAL WALL CONTROL JOINT

7 S-501 WALL CONTROL JOINT
SCALE: 12" = 1'-0"



5 S-501 RUB RAIL DETAIL

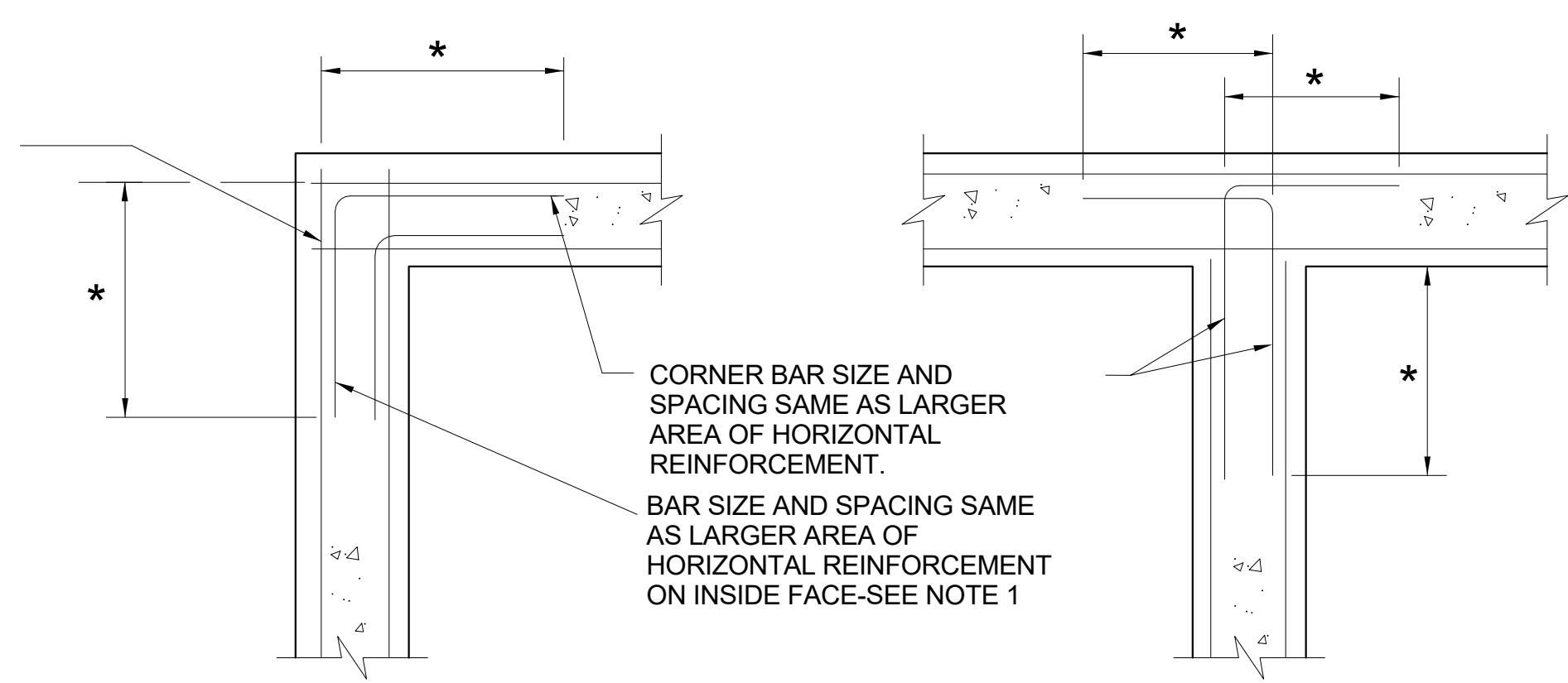


6 S-501 HORIZONTAL CORNER BAR DETAIL

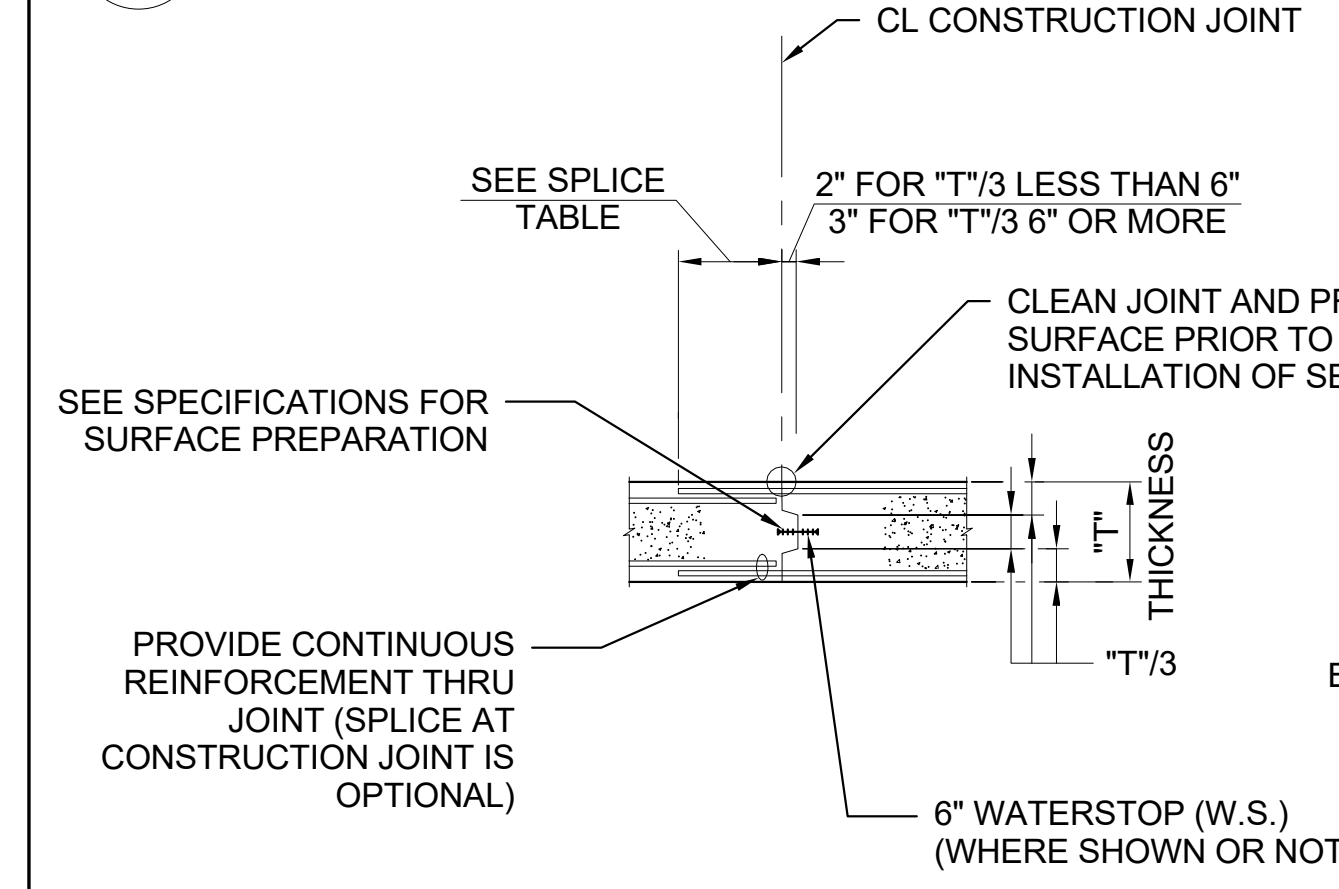
PLATFORM RUBBING EDGE NOTES:

- 1. (1) OF EACH TYPE OF EDGE SECTION WILL COVER FULL WIDTH OF EACH PLATFORM SECTION.
- 2. ATTACHMENT SHALL BE THROUGH SLOTTED HOLE IN RUBBING EDGE AND INTO A THREADED LOOP FERRULE INSERT CAST INTO THE PLATFORM.
- 3. COEFFICIENTS OF THERMAL EXPANSION MAY DIFFER WITH MANUFACTURES. TRIM EDGES AS REQUIRED DURING INSTALLATION.
- 4. INSTALL WITH SCARIFIED EDGE AT TOP OF PLATFORM FOR ADA COMPLIANCE.

STANDARD 90° HOOK-SEE NOTE 1



- CORNER BAR SIZE AND SPACING SAME AS LARGER AREA OF HORIZONTAL REINFORCEMENT.
- BAR SIZE AND SPACING SAME AS LARGER AREA OF HORIZONTAL REINFORCEMENT ON INSIDE FACE-SEE NOTE 1

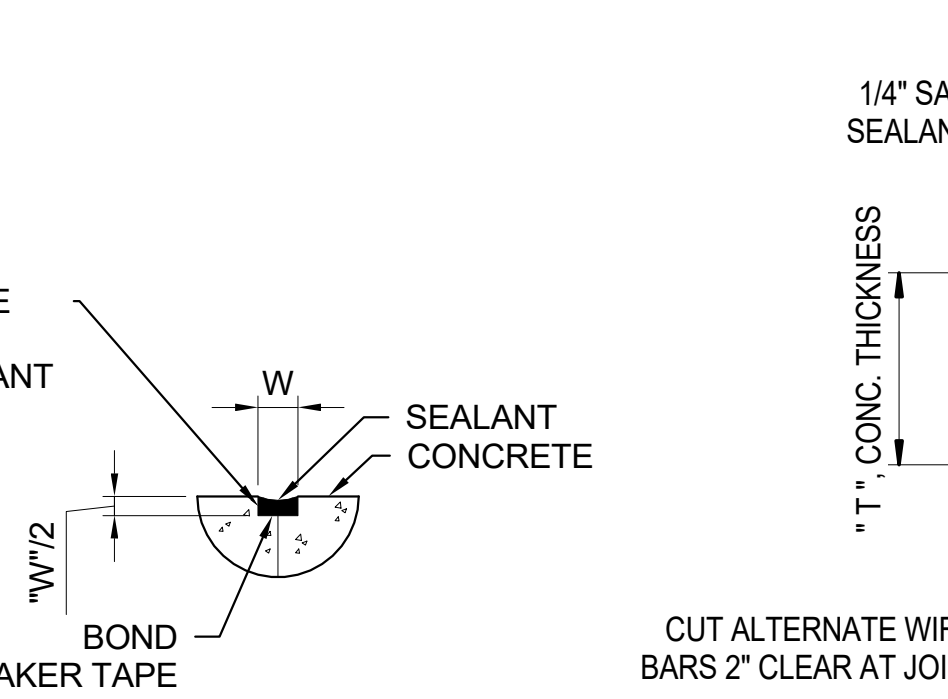


8 S-501 CONST JOINT DETAIL - WALLS & SLABS

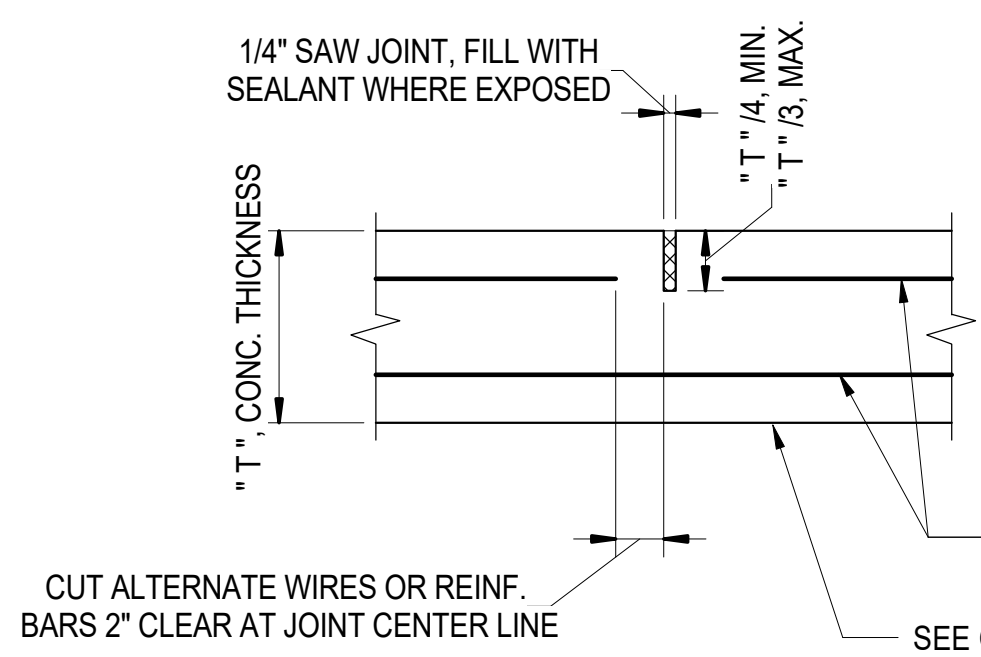
NOTE: WHERE "T" EXCEEDS 2'-0" SEE SECTIONS

EPOXY COATED REINFORCEMENT SPLICE LENGTH	
BAR SIZE	SPLICE LENGTH
#4	2'-0"
#5	2'-4"
#6	3'-0"
#7	4'-4"
#8	5'-0"
#9	6'-2"

11 S-501 REBAR SPLICE LENGTH TABLE

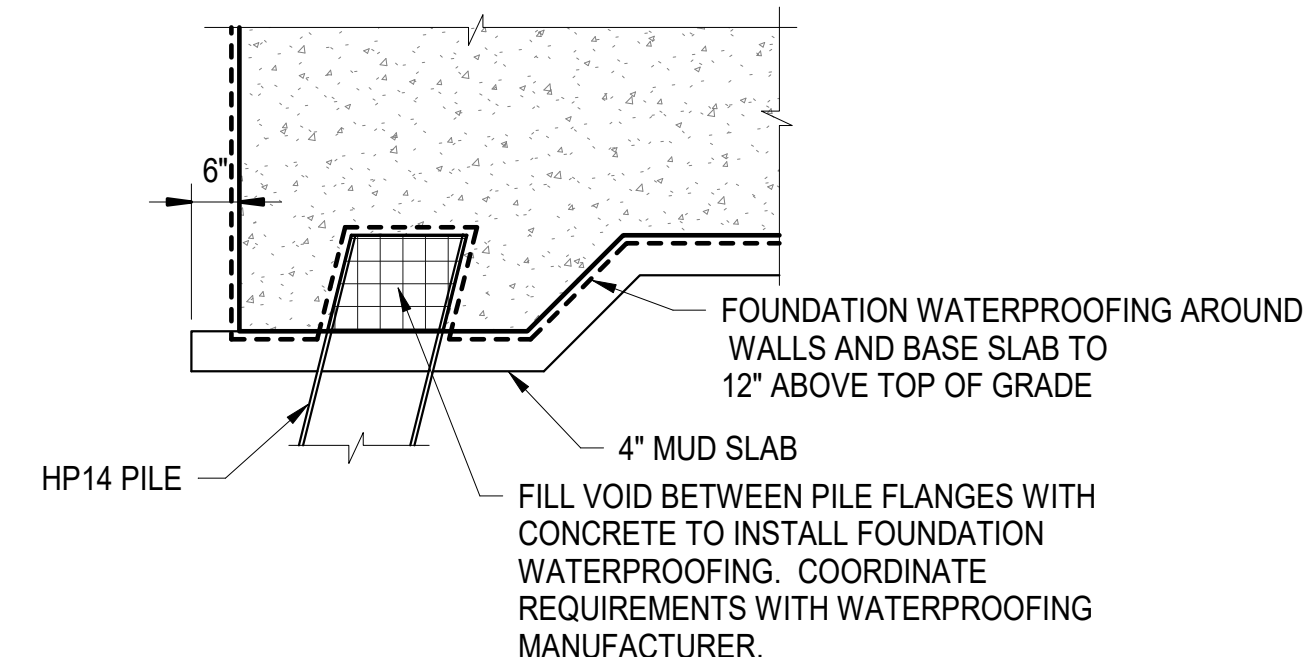


12 S-501 UNDERDRAIN DETAIL

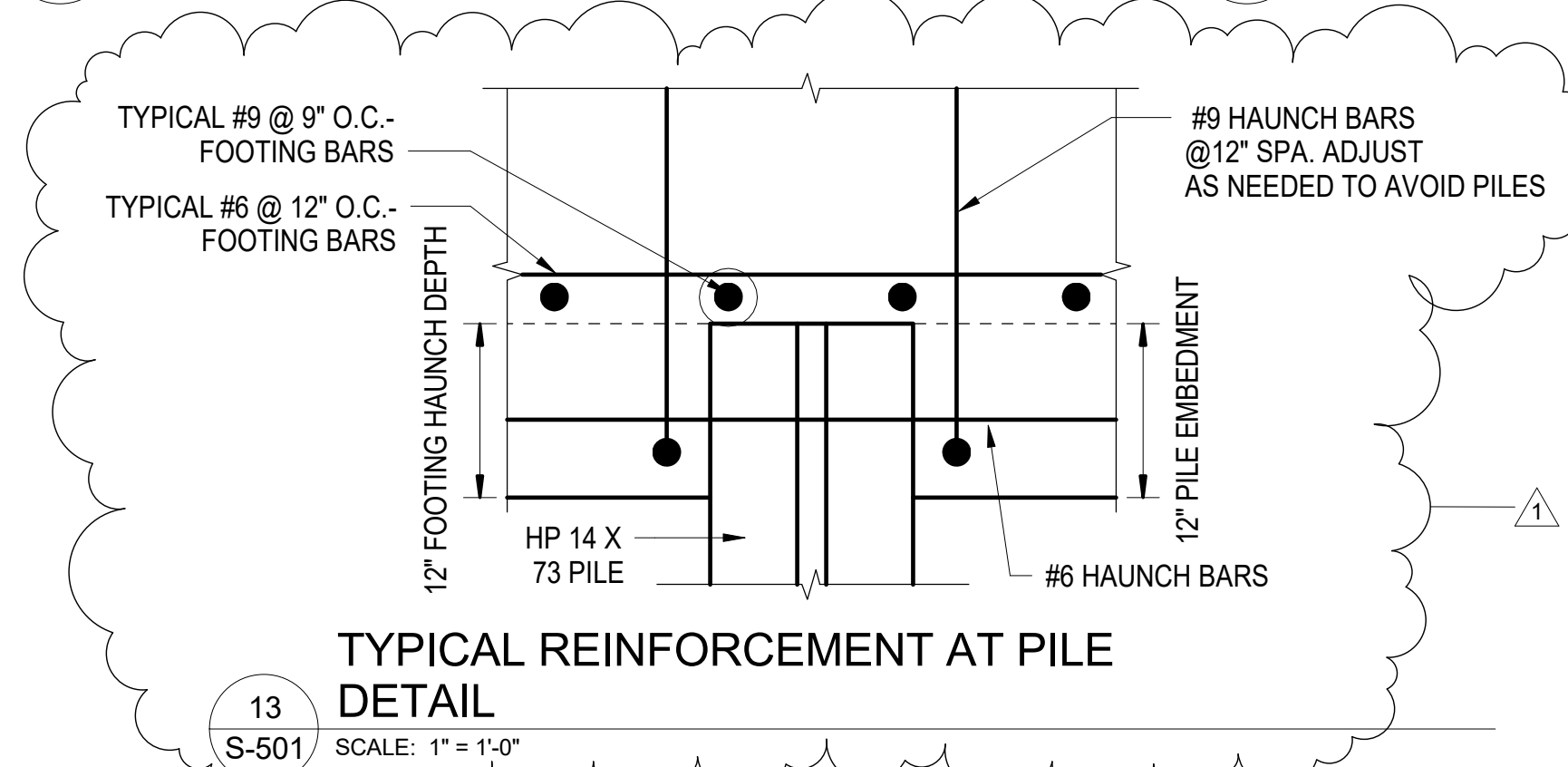


9 S-501 SLAB CONTROL JOINT
SCALE: 1 1/2" = 1'-0"

NOTES:
SAW CUT SHALL BE MADE AS SOON AS SLAB CAN SUPPORT EQUIPMENT AND NO LATER THAN 3 HOURS AFTER PLACEMENT.



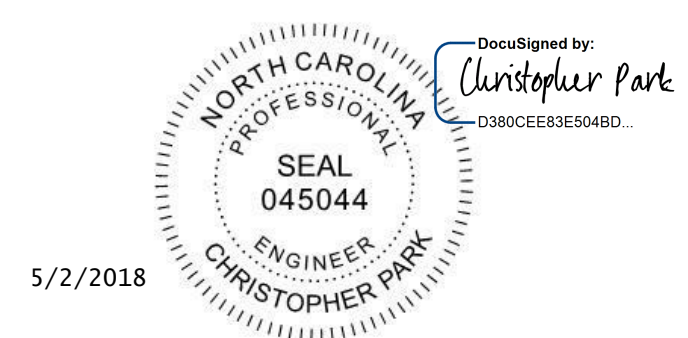
10 S-501 TYPICAL FOUNDATION WATERPROOFING DETAIL
SCALE: 1/2" = 1'-0"



13 S-501 TYPICAL REINFORCEMENT AT PILE DETAIL
SCALE: 1" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018

DWG. NO. 69

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
TYPICAL DETAILS					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1	CP	5/2/18	3		
2			4		

SHEET NO. S-501
TOTAL SHEETS 98

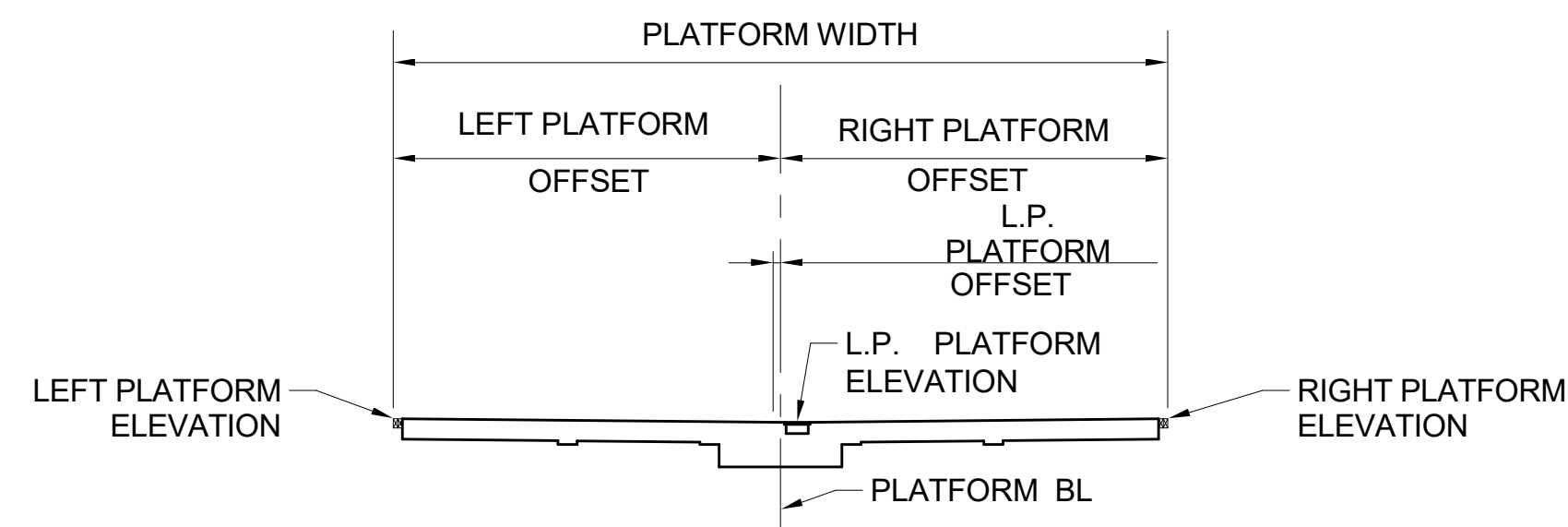
0012DEL_P28

PLATFORM BL STATION	PLATFORM WIDTH (FEET)	LEFT EDGE OF PLATFORM H.P. ELEVATION (FEET)	LEFT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)	PLATFORM L.P. ELEVATION	PLATFORM L.P. HORIZONTAL OFFSET FROM BL (FEET)	RIGHT EDGE OF PLATFORM H.P. ELEVATION (FEET)	RIGHT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)
19+78.93	22.48	748.558	17.09 LT	748.446	5.86 LT	748.557	5.40 RT
19+80.00	23.49	748.553	17.50 LT	748.436	5.81 LT	748.552	5.99 RT
19+90.00	24.22	748.545	17.50 LT	748.424	5.44 LT	748.544	6.72 RT
20+00.00	24.90	748.537	17.50 LT	748.413	5.11 LT	748.536	7.40 RT
20+10.00	25.57	748.529	17.50 LT	748.402	4.77 LT	748.528	8.07 RT
20+20.00	26.25	748.521	17.50 LT	748.390	4.43 LT	748.520	8.75 RT
20+30.00	26.94	748.513	17.50 LT	748.379	4.08 LT	748.512	9.44 RT
20+40.00	27.60	748.505	17.50 LT	748.368	3.75 LT	748.504	10.10 RT
20+50.00	28.24	748.497	17.50 LT	748.356	3.43 LT	748.496	10.74 RT
20+60.00	28.84	748.489	17.50 LT	748.345	3.13 LT	748.488	11.34 RT
20+70.00	29.41	748.481	17.50 LT	748.334	2.84 LT	748.480	11.91 RT
20+80.00	29.96	748.473	17.50 LT	748.324	2.57 LT	748.472	12.46 RT
20+90.00	30.48	748.465	17.50 LT	748.313	2.31 LT	748.464	12.98 RT
21+00.00	30.96	748.457	17.50 LT	748.303	2.07 LT	748.456	13.46 RT
21+10.00	31.42	748.449	17.50 LT	748.292	1.84 LT	748.448	13.92 RT
21+20.00	31.85	748.441	17.50 LT	748.282	1.62 LT	748.440	14.35 RT
21+30.00	32.25	748.433	17.50 LT	748.272	1.42 LT	748.432	14.75 RT
21+40.00	32.62	748.425	17.50 LT	748.262	1.24 LT	748.424	15.12 RT
21+50.00	32.96	748.417	17.50 LT	748.253	1.06 LT	748.416	15.46 RT
21+60.00	33.27	748.409	17.50 LT	748.243	0.91 LT	748.408	15.77 RT
21+70.00	33.55	748.401	17.50 LT	748.234	0.76 LT	748.400	16.05 RT
21+80.00	33.80	748.393	17.50 LT	748.224	0.64 LT	748.392	16.30 RT
21+90.00	34.03	748.385	17.50 LT	748.215	0.52 LT	748.384	16.53 RT
22+00.00	34.22	748.377	17.50 LT	748.206	0.42 LT	748.376	16.72 RT
22+10.00	34.39	748.369	17.50 LT	748.197	0.34 LT	748.368	16.89 RT
22+20.00	34.53	748.361	17.50 LT	748.189	0.27 LT	748.360	17.03 RT
22+30.00	34.63	748.353	17.50 LT	748.180	0.22 LT	748.352	17.13 RT
22+40.00	34.71	748.345	17.50 LT	748.172	0.18 LT	748.344	17.21 RT
22+50.00	34.78	748.337	17.50 LT	748.163	0.14 LT	748.336	17.28 RT
22+60.00	34.86	748.329	17.50 LT	748.155	0.10 LT	748.328	17.36 RT
22+70.00	34.94	748.321	17.50 LT	748.147	0.06 LT	748.320	17.44 RT
22+80.00	35.00	748.313	17.50 LT	748.138	0.03 LT	748.312	17.50 RT
22+90.00	35.00	748.305	17.50 LT	748.130	0.02 LT	748.304	17.50 RT
23+00.00	35.00	748.297	17.50 LT	748.122	0.02 LT	748.296	17.50 RT
23+10.00	35.00	748.289	17.50 LT	748.114	0.02 LT	748.288	17.50 RT
23+20.00	35.00	748.281	17.50 LT	748.106	0.02 LT	748.280	17.50 RT
23+30.00	35.00	748.273	17.50 LT	748.098	0.02 LT	748.272	17.50 RT
23+40.00	35.00	748.265	17.50 LT	748.090	0.02 LT	748.264	17.50 RT
23+50.00	35.00	748.257	17.50 LT	748.082	0.02 LT	748.256	17.50 RT
23+60.00	35.00	748.249	17.50 LT	748.074	0.01 LT	748.248	17.50 RT
23+70.00	35.00	748.241	17.50 LT	748.066	0.01 LT	748.240	17.50 RT
23+80.00	35.00	748.233	17.50 LT	748.058	0.01 LT	748.232	17.50 RT
23+90.00	35.00	748.225	17.50 LT	748.050	0.01 LT	748.224	17.50 RT
24+00.00	35.00	748.217	17.50 LT	748.042	0.01 LT	748.216	17.50 RT

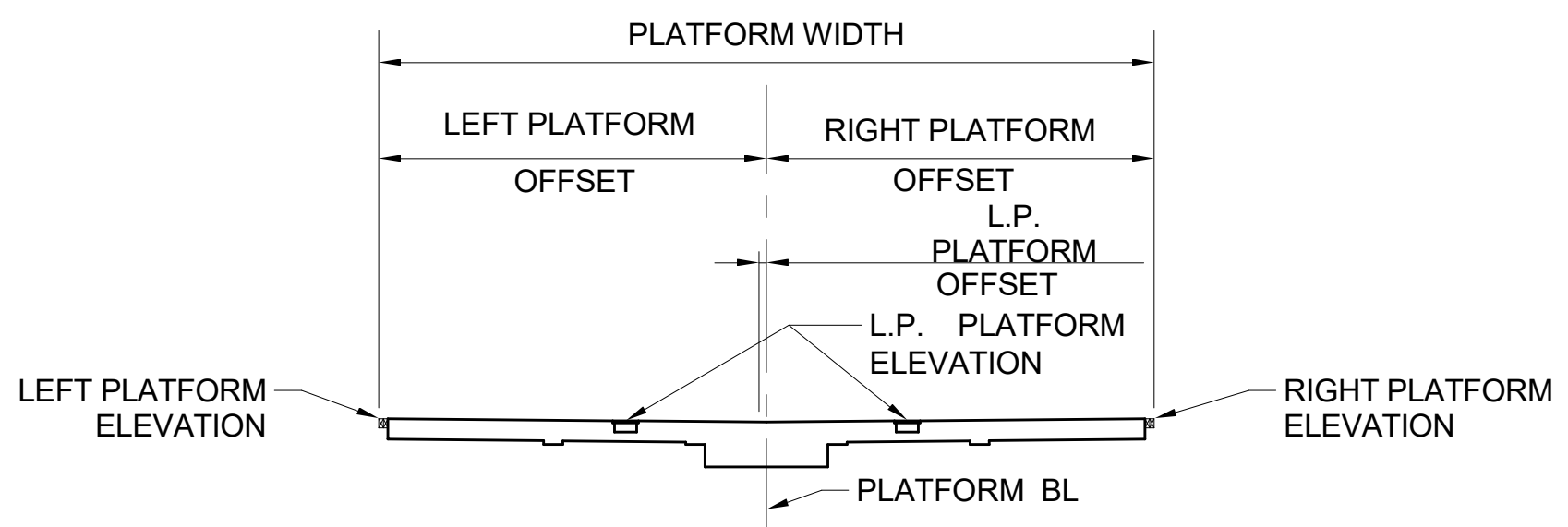
PLATFORM BL STATION	PLATFORM WIDTH (FEET)	LEFT EDGE OF PLATFORM H.P. ELEVATION (FEET)	LEFT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)	PLATFORM L.P. ELEVATION	PLATFORM L.P. HORIZONTAL OFFSET FROM BL (FEET)	RIGHT EDGE OF PLATFORM H.P. ELEVATION (FEET)	RIGHT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)
24+10.00	35.00	748.209	17.50 LT	748.034	0.01 LT	748.209	17.50 RT
24+20.00	35.00	748.201	17.50 LT	748.026	0.01 LT	748.201	17.50 RT
24+30.00	35.00	748.193	17.50 LT	748.018	0.00	748.193	17.50 RT
24+40.00	35.00	748.185	17.50 LT	748.010	0.00	748.185	17.50 RT
24+50.00	35.00	748.177	17.50 LT	748.002	0.00	748.177	17.50 RT
24+60.00	35.00	748.169	17.50 LT	747.994	0.00	748.169	17.50 RT
24+70.00	35.00	748.161	17.50 LT	747.986	0.00	748.161	17.50 RT
24+80.00	35.00	748.153	17.50 LT	747.978	0.00	748.153	17.50 RT
24+90.00	35.00	748.145	17.50 LT	747.970	0.00	748.145	17.50 RT
25+00.00	35.00	748.137	17.50 LT	747.962	0.01 RT	748.137	17.50 RT
25+10.00	35.00	748.129	17.50 LT	747.954	0.01 RT	748.129	17.50 RT
25+20.00	35.00	748.121	17.50 LT	747.946	0.01 RT	748.121	17.50 RT
25+30.00	35.00	748.113	17.50 LT	747.938	0.01 RT	748.113	17.50 RT
25+40.00	35.00	748.105	17.50 LT	747.930	0.01 RT	748.105	17.50 RT
25+50.00	35.00	748.097	17.50 LT	747.922	0.01 RT	748.097	17.50 RT
25+60.00	35.00	748.089	17.50 LT	747.914	0.01 RT	748.089	17.50 RT
25+70.00	35.00	748.081	17.50 LT	747.906	0.02 RT	748.081	17.50 RT
25+80.00	35.00	748.073	17.50 LT	747.898	0.02 RT	748.073	17.50 RT
25+90.00	35.00	748.065	17.50 LT	747.890	0.02 RT	748.065	17.50 RT
26+00.00	35.00	748.057	17.50 LT	747.882	0.02 RT	748.057	17.50 RT
26+10.00	35.00	748.049	17.50 LT	747.874	0.02 RT	748.049	17.50 RT
26+20.00	35.00	748.041	17.50 LT	747.866	0.02 RT	748.041	17.50 RT
26+30.00	35.00	748.033	17.50 LT	747.858	0.02 RT	748.033	17.50 RT
26+40.00	35.00	748.025	17.50 LT	747.850	0.03 RT	748.025	17.50 RT
26+50.00	35.00	748.017	17.50 LT	747.842	0.03 RT	748.017	17.50 RT
26+60.00	35.00	748.009	17.50 LT	747.834	0.03 RT	748.009	17.50 RT
26+70.00	35.00	748.001	17.50 LT	747.826	0.03 RT	748.001	17.50 RT
26+80.00	35.00	747.993	17.50 LT	747.818	0.03 RT	747.993	17.50 RT
26+90.00	35.00	747.985	17.50 LT	747.810	0.03 RT	747.985	17.50 RT
27+00.00	35.00	747.977	17.50 LT	747.802	0.03 RT	747.977	17.50 RT
27+10.00	35.00	747.969	17.50 LT	747.794	0.04 RT	747.969	17.50 RT
27+20.00	35.00	747.961	17.50 LT	747.786	0.04 RT	747.961	17.50 RT
27+30.00	35.00	747.953	17.50 LT	747.778	0.04 RT	747.953	17.50 RT
27+40.00	35.00	747.945	17.50 LT	747.770	0.04 RT	747.945	17.50 RT
27+50.00	35.00	747.937	17.50 LT	747.762	0.04 RT	747.937	17.50 RT
27+60.00	35.00	747.929	17.50 LT	747.754	0.04 RT	747.929	17.50 RT
27+70.00	35.00	747.921	17.50 LT	747.746	0.04 RT	747.921	17.50 RT
27+80.00	35.00	747.913	17.50 LT	747.738	0.04 RT	747.913	17.50 RT
27+90.00	35.00	747.905	17.50 LT	747.730	0.05 RT	747.905	17.50 RT
28+00.00	35.00	747.897	17.50 LT	747.722	0.05 RT	747.898	17.50 RT
28+10.00	34.96	747.889	17.50 LT	747.714	0.03 RT	747.890	17.46 RT
28+20.00	34.87	747.881	17.50 LT	747.706	0.01 LT	747.882	17.37 RT
28+30.00	34.79	747.873	17.50 LT	747.699	0.05 LT	747.874	17.29 RT
28+40.00	34.72	747.865	17.50 LT	747.691	0.09 LT	747.866	17.22 RT

NOTE:
 1. ALL VALUES SHOWN ARE IN FEET AND LOOKING STATIONS AHEAD.
 2. LT DENOTES LEFT OF BASELINE
 RT DENOTES RIGHT OF BASELINE.

1 TOP OF PLATFORM ELEVATIONS - 1
 S-601 SCALE: 1" = 1'-0"



TYP. SECTION FOR STATIONS:
 19+80 TO 24+25
 27+50 TO 29+20
 30+00 TO 30+80



TYP. SECTION FOR STATIONS:
 24+25 TO 27+40
 29+20 TO 30+00

PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PLATFORM SLAB ELEVATION TABLE

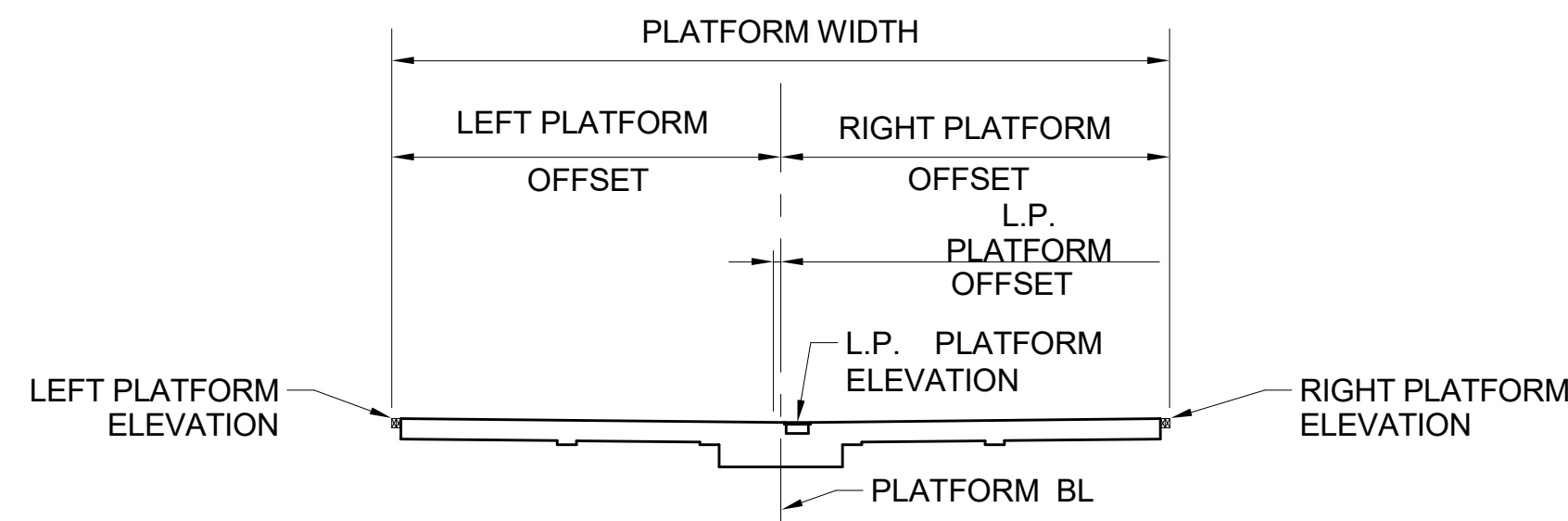
REVISIONS						SHEET NO. S-601
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

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NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

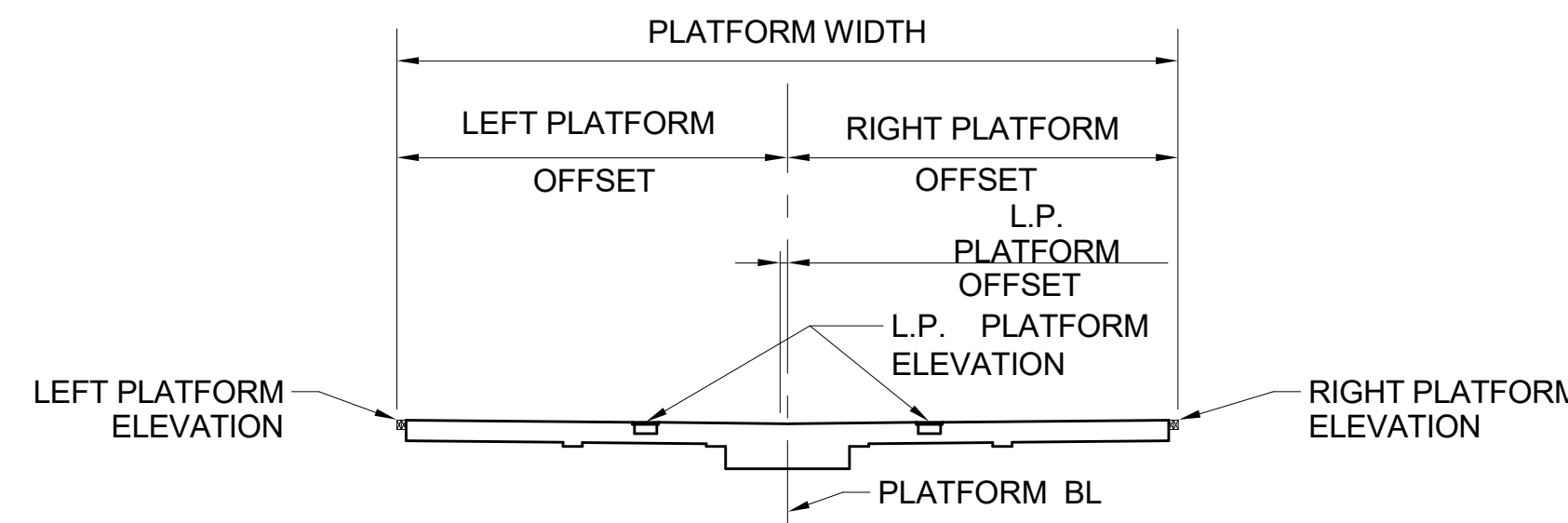
DWG. NO. 70

PLATFORM BL STATION	PLATFORM WIDTH (FEET)	LEFT EDGE OF PLATFORM H.P. ELEVATION (FEET)	LEFT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)	PLATFORM L.P. ELEVATION	PLATFORM L.P. HORIZONTAL OFFSET FROM BL (FEET)	RIGHT EDGE OF PLATFORM H.P. ELEVATION (FEET)	RIGHT EDGE OF PLATFORM HORIZONTAL OFFSET FROM BL (FEET)
28+50.00	34.65	747.857	17.50 LT	747.683	0.12 LT	747.858	17.15 RT
28+60.00	34.49	747.849	17.44 LT	747.676	0.14 LT	747.850	17.05 RT
28+70.00	34.28	747.841	17.36 LT	747.669	0.16 LT	747.842	16.92 RT
28+80.00	34.04	747.833	17.28 LT	747.662	0.20 LT	747.834	16.76 RT
28+90.00	33.78	747.825	17.21 LT	747.655	0.25 LT	747.826	16.57 RT
29+00.00	33.49	747.817	17.14 LT	747.649	0.32 LT	747.818	16.35 RT
29+10.00	33.13	747.809	17.03 LT	747.643	0.38 LT	747.810	16.11 RT
29+20.00	32.72	747.801	16.89 LT	747.637	0.44 LT	747.802	15.83 RT
29+30.00	32.26	747.793	16.73 LT	747.631	0.51 LT	747.794	15.53 RT
29+40.00	31.79	747.785	16.54 LT	747.625	0.54 LT	747.786	15.26 RT
29+50.00	31.29	747.777	16.31 LT	747.619	0.56 LT	747.778	14.98 RT
29+60.00	30.75	747.769	16.06 LT	747.614	0.57 LT	747.770	14.69 RT
29+70.00	30.11	747.761	15.78 LT	747.609	0.60 LT	747.762	14.33 RT
29+80.00	29.44	747.753	15.47 LT	747.605	0.62 LT	747.754	13.97 RT
29+90.00	28.75	747.745	15.13 LT	747.600	0.63 LT	747.746	13.62 RT
30+00.00	28.02	747.737	14.76 LT	747.596	0.62 LT	747.738	13.26 RT
30+10.00	27.26	747.729	14.36 LT	747.591	0.59 LT	747.730	12.90 RT
30+20.00	26.47	747.720	13.94 LT	747.586	0.55 LT	747.722	12.54 RT
30+30.00	25.66	747.712	13.48 LT	747.582	0.50 LT	747.714	12.18 RT
30+40.00	24.81	747.704	12.99 LT	747.578	0.43 LT	747.706	11.82 RT
30+50.00	23.94	747.696	12.48 LT	747.575	0.35 LT	747.698	11.46 RT
30+60.00	23.04	747.688	11.94 LT	747.571	0.25 LT	747.690	11.10 RT
30+70.00	22.10	747.680	11.36 LT	747.568	0.16 LT	747.681	10.74 RT
30+78.93	22.28	747.681	11.43 LT	747.568	0.17 LT	747.685	10.85 RT

1 TOP OF PLATFORM ELEVATIONS - 2
S-602 SCALE: 12" = 1'-0"



TYP. CONDITION FOR STATIONS:
19+80 TO 24+25
27+50 TO 29+20
30+00 TO 30+80



TYP. CONDITION FOR STATIONS:
25+25 TO 27+40
29+20 TO 30+00

- NOTE:
1. ALL VALUES SHOWN ARE IN FEET AND LOOKING STATIONS AHEAD.
2. LT DENOTES LEFT OF BASELINE
RT DENOTES RIGHT OF BASELINE.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2



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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLATFORM SLAB ELEVATION TABLE

HNTB HNTB NORTH CAROLINA, P.C.
NC License No. C-1554
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

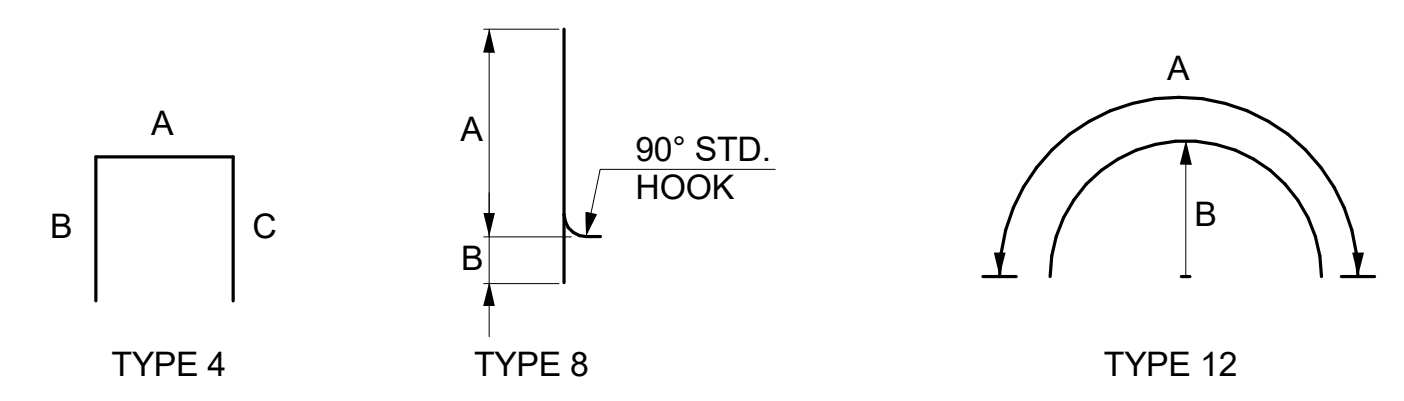
DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018

DWG. NO. 71

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-602
1			3			TOTAL SHEETS
2			4			98

0012DEL_P28

PLATFORM DECK REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
ES401	31	#4	8	13'-0"	269	12'-6"	0'-6"					
ES402	31	#4	STR	12'-6"	259							
ES403	24	#4	12	8'-3"	132	8'-3"	2'-11"					FIELD CUT THROUGH BARS
ES404	512	#4	STR	37'-0"	12655							
ES405	128	#4	STR	31'-6"	2693							
ES406	78	#4	STR	14'-0"	729							
ES407	64	#4	STR	26'-5"	1129							
ES408	44	#4	STR	22'-5"	659							
ES409	168	#4	STR	27'-8"	3105							
ES410	58	#4	8	7'-6"	291	7'-0"	0'-6"					
ES411	12	#4	12	6'-9"	54	6'-9"	2'-3"					FIELD CUT THROUGH BARS
ES601	19	#6	4	15'-10"	452	14'-10"	0'-6"	0'-6"				
ES602	19	#6	STR	14'-10"	423							
ES603	6	#6	8	13'-0"	0	12'-6"	0'-6"					
ES604	6	#6	STR	12'-6"	0							
ES605	238	#6	4	12'-10 1/2" TO 14'-11"	4967	10'-10 1/2" TO 12'-11"	0'-6"	1'-6"				VARY A 2 EACH BY 1/4"
ES606	238	#6	STR	14'-6"	5183							
ES607	238	#6	4	14'-11" TO 16'-7"	5630	12'-11" TO 14'-7"	0'-6"	1'-6"				VARY A 2 EACH BY 1/8"
ES608	238	#6	STR	16'-3"	5809							
ES609	238	#6	4	16'-7 1/4" TO 17'-9"	6140	14'-7 1/4" TO 15'-9"	0'-6"	1'-6"				VARY A 2 EACH BY 1/8"
ES610	238	#6	STR	17'-4"	6196							
ES611	320	#6	4	17'-9" TO 18'-6"	8712	15'-9" TO 16'-6"	0'-6"	1'-6"				VARY A 2 EACH BY 1/8"
ES612	320	#6	STR	18'-1"	8692							
ES613	79	#6	8	18'-6" TO 18'-8"	2205	16'-6" TO 16'-8"	0'-6"	1'-6"				VARY A 2 EACH BY 1/8"
ES614	79	#6	STR	18'-3"	2166							
ES615	2	#6	8	18'-9"	56	18'-3"	0'-6"					
ES616	2	#6	STR	18'-3"	55							
ES617	56	#6	8	18'-5"	0	17'-11"	0'-6"					
ES618	56	#6	STR	17'-11"	0							
ES619	178	#6	8	17'-1 1/2" TO 17'-10"	4673	15'-1 1/2" TO 15'-10"	0'-6"	1'-6"				
ES620	178	#6	STR	16'-9"	4478							
ES621	202	#6	4	10'-6" TO 11'-9"	3375	8'-6" TO 9'-9"	0'-6"	1'-6"				VARY A 2 EACH BY 1/8"
ES622	202	#6	STR	11'-4"	3439							
ES623	106	#6	4	12'-11"	2056	9'-11"	1'-6"	1'-6"				
ES624	106	#6	STR	13'-0"	2070							
ES625	84	#6	4	9'-9 1/2" TO 10'-6"	1280	7'-9 1/2" TO 8'-6"	0'-6"	1'-6"				VARY A 2 EACH BY 1/4"
ES626	84	#6	STR	9'-2" TO 9'-11"	1204							VARY A 2 EACH BY 1/4"
ES627	150	#6	4	13'-0 1/2" TO 15'-0"	3159	11'-0 1/2" TO 13'-0"	0'-6"	1'-6"				VARY A 2 EACH BY 1/4"
ES628	150	#6	STR	14'-8"	3304							
ES629	150	#6	4	11'-9 1/2" TO 13'-6"	2849	9'-9 1/2" TO 11'-6"	0'-6"	1'-6"				VARY A 2 EACH BY 1/4"
ES630	150	#6	STR	13'-1"	2948							
ES631	6	#6	4	14'-10"	134	13'-10"	0'-6"	0'-6"				
ES630	6	#6	STR	13'-10"	0							



PROJECT NO. P-5705BB
MECKLENBURG COUNTY

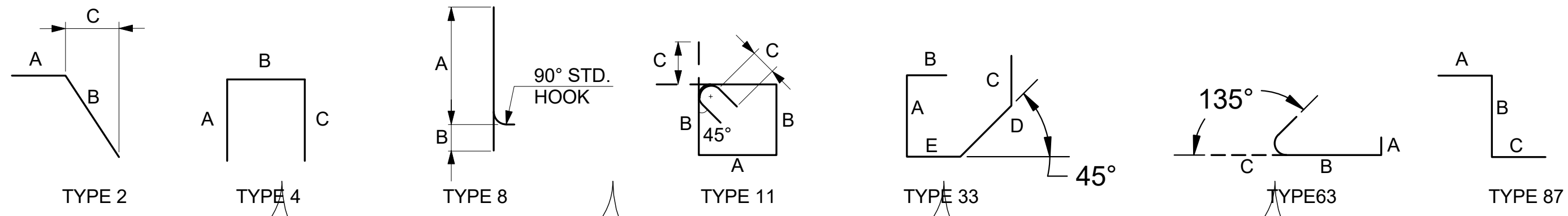
PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 4

<p>4/5/2018</p> <p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH</p> <p>REINFORCEMENT SCHEDULE</p>	REVISIONS					SHEET NO. S-650 TOTAL SHEETS 98
	NO. BY DATE NO. BY DATE	1 3 3/27/2018	2 4 3/27/2018	3 3 3/27/2018	4 4 3/27/2018	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>		DWG. NO. 72		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

0012DEL_P28
1001ADD_P28

4TH STREET EGRESS REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
F425	11	#4	11	5' - 1/2"	37	2' - 1"	2' - 7"	0' - 4 1/2"				
F930	24	#4	11	4' - 6 1/2"	73	1' - 7"	2' - 7"	0' - 4 1/2"				
F441	118	#4	STR	4' - 7"	361							
F442	216	#4	2	2' - 6"	361	2' - 0"	1' - 6"	0' - 2"				
F603	174	#6	8	3' - 4 3/4"	886	2' - 4 3/4"	1' - 0"					
F615	40	#6	8	6' - 5 1/4"	386	5' - 5 1/4"	1' - 0"					
F619	32	#6	STR	16' - 8"	801							
F620	16	#6	STR	3' - 8"	88							
F623	20	#6	STR	7' - 8"	230							
F635	6	#6	STR	15' - 10 1/2"	143							
F660	124	#6	STR	40' - 0"	7450							
F688	64	#6	2	8' - 4 1/4"	564	2' - 11 1/8"	2' - 11 1/8"	2' - 5 3/4"				
F692	48	#6	STR	38' - 0"	2740							
F693	48	#6	STR	26' - 0"	1874							
F694	28	#6	STR	15' - 10 1/2"	667							
F695	48	#6	STR	3' - 2"	228							
F696	28	#6	STR	38' - 0"	1598							
F902	424	#9	8	10' - 3 1/4"	14793	8' - 8 1/4"	1' - 7"					
E903	384	#9	STR	22' - 7 1/2"	29553							

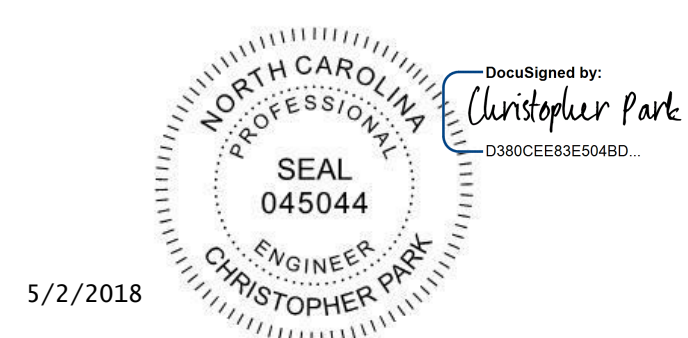


PLATFORM WALL AND FOOTING REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
P402	624	#4	11	4' - 6 2/4"	1893	1' - 7"	2' - 7"	0' - 4 8/16"				
P415	44	#4	STR	13' - 0"	382							
P420	44	#4	STR	19' - 0"	558							
P425	418	#4	11	3' - 8 2/4"	1035	2' - 7"	0' - 9"	0' - 4 8/16"				
P426	836	#4	11	2' - 6 2/4"	1419	0' - 8"	1' - 6"	0' - 4 8/16"				
P440	528	#4	STR	40' - 0"	14108							
P601	2612	#6	STR	9' - 2"	35963							
P602	1960	#6	8	3' - 11 1/4"	11577	2' - 11 3/16"	1' - 0"					
P603	2612	#6	8	5' - 5 1/4"	21313	4' - 5 3/16"	1' - 0"					
P605	240	#6	STR	24' - 8"	8892							
P606	240	#6	8	4' - 8 1/4"	1688	3' - 8 3/16"	1' - 0"					
P607	4	#6	STR	26' - 0"	156							
P608	6	#6	STR	13' - 0"	117							
P609	4	#6	STR	6' - 0"	36							
P620	24	#6	STR	18' - 0"	649							
P630	24	#6	STR	26' - 0"	937							
P660	330	#6	STR	40' - 0"	19826							
P901	240	#9	STR	24' - 8"	20128							
P902	240	#9	8	8' - 6 1/4"	6945	6' - 11 2/16"	1' - 7"					
P903	6	#9	STR	16' - 0"	326							
P904	2612	#9	STR	4' - 8"	41444							
P905	10	#9	STR	15' - 0"	510							
P906	10	#9	STR	13' - 0"	442							
P940	106	#9	STR	40' - 0"	14416							

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 4



5/2/2018
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REINFORCEMENT SCHEDULE

HNTB HNTB NORTH CAROLINA, P.C.
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343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

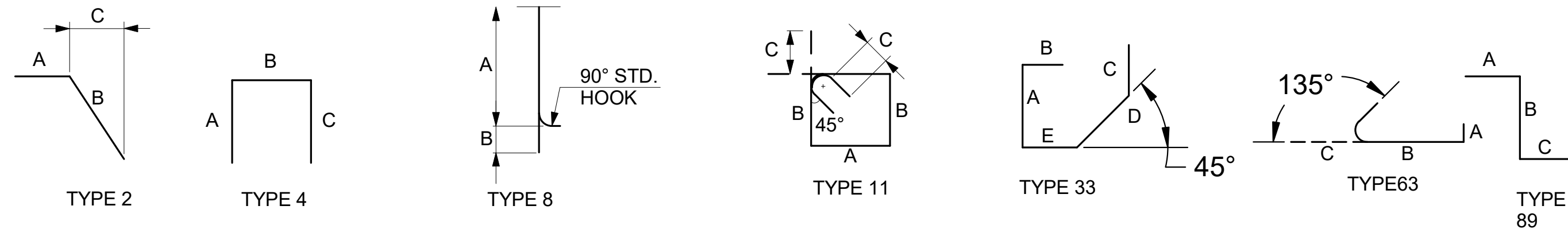
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1	CP	5/2/18	3		
2			4		

SHEET NO. S-651
TOTAL SHEETS 98

DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 73

CONCOURSE REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
C401	72	#4	STR	19' - 8"	946							
C402	40	#4	STR	19' - 8"	525							
C404	18	#4	STR	8' - 8"	104							
C405	92	#4	STR	10' - 0"	615							
C406	40	#4	STR	4' - 7"	122							
C408	36	#4	STR	34' - 0"	818							
C410	148	#4	STR	5' - 3"	519							
C412	28	#4	STR	12' - 11"	242							
C413	40	#4	STR	9' - 6"	254							
C414	28	#4	STR	18' - 8"	349							
C415	44	#4	STR	10' - 0"	294							
C416	40	#4	STR	34' - 0"	908							
C417	376	#4	STR	8' - 8"	2177							
C419	56	#4	STR	24' - 0"	898							
C423	72	#4	STR	10' - 8"	513							
C424	40	#4	STR	10' - 8"	285							
C425	179	#4	11	5' - 1/2"	603	2' - 1"	2' - 7"	0' - 4 1/2"				
C426	95	#4	11	4' - 6 1/2"	288	1' - 7"	2' - 7"	0' - 4 1/2"				
C427	48	#4	STR	18' - 3 1/2"	586							
C428	48	#4	STR	38' - 9 1/2"	1244							
C432	80	#4	8	3' - 11 3/4"	213	3' - 3 13/16"	0' - 8"					
C433	80	#4	8	2' - 5 3/4"	133	1' - 9 13/16"	0' - 8"					
C435	28	#4	11	4' - 5 1/2"	66	1' - 6"	2' - 7"	0' - 4 1/2"				
C440	396	#4	STR	40' - 0"	10581							
C441	118	#4	STR	4' - 7"	361							
C442	216	#4	2	2' - 6"	361	1' - 6"	1' - 0"	- 0' - 2"				
C443	48	#4	STR	18' - 8"	599							
C444	96	#4	8	5' - 1 1/2"	328	4' - 5 7/16"	0' - 8"					
C451	60	#4	89	4' - 1"	164	0' - 8"	2' - 9"	0' - 8"				
C452	60	#4	STR	4' - 0"	160							
C453	56	#4	STR	7' - 0"	262							
C455	19	#4	63	3' - 8 1/2"	47	0' - 8"	2' - 8"	0' - 4 1/2"				
C456	38	#4	63	2' - 8 1/2"	69	0' - 8"	1' - 8"	0' - 4 1/2"				
C601	128	#6	STR	34' - 8"	6665							
C602	464	#6	4	9' - 2 3/4"	6429	6' - 3 1/2"	2' - 11 3/16"					
C603	1982	#6	8	3' - 4 3/4"	10097	2' - 4 11/16"	1' - 0"					
C604	176	#6	STR	8' - 8"	2291							
C605	1340	#6	8	5' - 11 3/4"	12024	5' - 5 3/16"	0' - 6 1/2"					
C606	24	#6	STR	19' - 8"	709							
C607	330	#6	STR	7' - 10"	3883							
C608	32	#6	STR	35' - 8"	1714							
C609	672	#6	4	5' - 10 1/2"	5920	2' - 11 3/16"	2' - 11 3/16"					
C610	38	#6	STR	7' - 8"	438							
C611	32	#6	2	5' - 10 3/8"	404	2' - 11 3/16"	2' - 11 3/16"	2' - 6 1/2"				
C612	32	#6	2	5' - 10 3/8"	352	2' - 11 3/16"	2' - 11 3/16"	1' - 5 5/8"				
C613	46	#6	STR	22' - 6"	1555							
C614	60	#6	STR	21' - 4 1/4"	1924							
C615	1596	#6	8	6' - 5 1/4"	15420	5' - 5 3/16"	1' - 0"					
C616	92	#6	STR	21' - 4"	2948							
C617	24	#6	STR	10' - 6"	379							
C618	92	#6	STR	10' - 6"	1451							
C619	64	#6	STR	16' - 8"	1602							
C620	16	#6	STR	3' - 8"	88							
C621	20	#6	STR	6' - 0"	180							
C623	50	#6	STR	17' - 6"	1314							
C625	46	#6	STR	7' - 0"	484							
C626	32	#6	STR	8' - 8"	417							

CONCOURSE REINFORCEMENT SCHEDULE



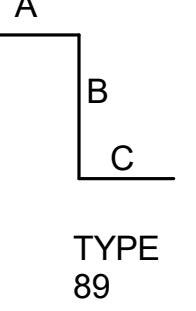
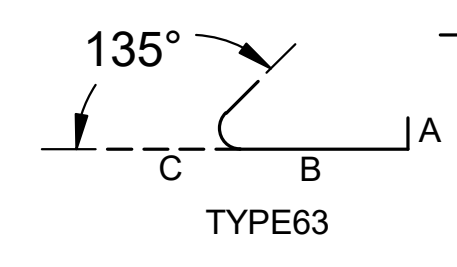
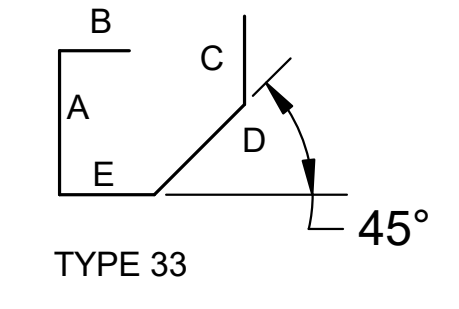
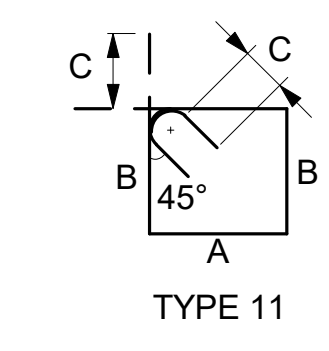
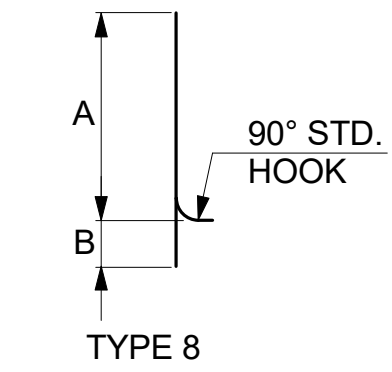
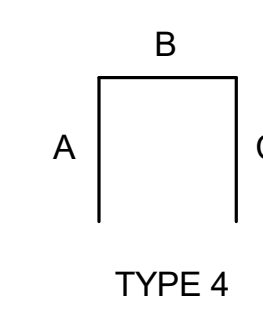
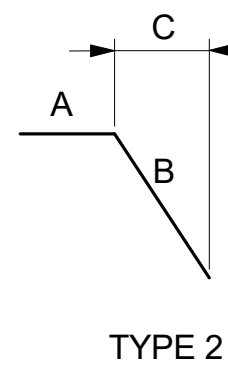
PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 3 OF 4

		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH REINFORCEMENT SCHEDULE		SHEET NO.			
				S-652			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		REVISIONS				TOTAL SHEETS 98	
		NO.	BY	DATE	NO.		BY
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		1			3		
		2			4		
DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>		DWG. NO. 74					

CONCOURSE REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
C627	26	#6	STR	39' - 0"	1523							
C628	48	#6	STR	6' - 0"	433							
C629	132	#6	STR	7' - 7 3/4"	1515							
C631	48	#6	STR	12' - 11"	931							
C633	46	#6	STR	6' - 8"	461							
C634	48	#6	STR	26' - 5"	1905							
C635	30	#6	STR	25' - 10 2/4"	1165							
C636	46	#6	STR	9' - 6"	656							
C637	30	#6	STR	17' - 3/4"	769							
C638	20	#6	STR	9' - 6"	285							
C639	48	#6	STR	9' - 6"	685							
C640	20	#6	STR	13' - 3 2/4"	399							
C641	92	#6	STR	4' - 1"	564							
C642	18	#6	STR	13' - 8"	369							
C643	22	#6	STR	13' - 8"	452							
C644	48	#6	STR	18' - 8"	1346							
C646	46	#6	STR	30' - 0"	2073							
C647	48	#6	STR	18' - 8"	1346							
C648	692	#6	STR	11' - 7 3/4"	12100							
C650	30	#6	STR	12' - 0"	541							
C652	92	#6	STR	29' - 0"	4007							
C653	1000	#6	STR	8' - 10"	13268							
C655	30	#6	STR	32' - 0"	1442							
C656	36	#6	STR	38' - 0"	2055							
C657	804	#6	STR	12' - 7 1/4"	15221							
C660	988	#6	STR	40' - 0"	59359							
C661	52	#6	STR	12' - 0"	937							
C662	32	#6	11	5' - 0"	240	2' - 2"	2' - 2"	0' - 8"				
C663	32	#6	11	4' - 5"	212	2' - 2"	1' - 7"	0' - 8"				
C664	30	#6	STR	10' - 0"	451							
C671	24	#6	STR	10' - 8"	385							
C680	48	#6	89	6' - 11"	499	1' - 0"	4' - 11"	1' - 0"				
C681	96	#6	89	6' - 11"	997	1' - 0"	4' - 11"	1' - 0"				
C682	16	#6	STR	17' - 3"	415							
C683	48	#6	STR	19' - 3"	1388							
C684	22	#6	STR	17' - 3"	570							
C685	32	#6	8	4' - 10 3/4"	235	3' - 10 11/16"	1' - 0"					
C686	22	#6	89	7' - 8"	253	1' - 0"	5' - 8 1/16"	1' - 0"				
C687	26	#6	2	5' - 0"	196	1' - 8 11/16"	2' - 11 3/16"	0' - 4 3/16"				
C688	128	#6	2	8' - 4 1/4"	1606	2' - 11 3/16"	2' - 11 3/16"	2' - 5 13/16"				
C690	26	#6	3	5' - 6 3/4"	217	3' - 0"	1' - 6"	1' - 12/16"				
C691	52	#6	STR	22' - 6"	1757							
C901	1718	#9	STR	21' - 4 1/4"	124690							
C902	3234	#9	8	10' - 3 1/4"	112831	8' - 8 2/16"	1' - 7"					
C904	176	#9	STR	4' - 8"	2793							
C905	326	#9	4	25' - 8"	28449	1' - 7"	22' - 6"	1' - 7"				
C906	88	#9	STR	10' - 2"	3042							
C910	32	#9	STR	17' - 1 1/4"	1861							
C912	90	#9	STR	22' - 6"	6885							
C914	40	#9	STR	7' - 8"	1043							
C915	40	#9	STR	9' - 8"	1315							
C917	56	#9	8	14' - 2 1/4"	2700	12' - 7 3/16"	1' - 7"					
C918	24	#9	STR	12' - 0"	979							
C919	50	#9	STR	17' - 6"	2975							
C924	232	#9	STR	13' - 8"	10780							
C927	286	#9	4	16' - 10"	16369	1' - 7"	13' - 8"	1' - 7"				
C928	226	#9	4	16' - 10"	12935	1' - 7"	13' - 8"	1' - 7"				
C929	448	#9	STR	11' - 8"	17771							
C930	1008	#9	33	10' - 4 1/4"	38629	2' - 11"	1' - 7"		4' - 1 8/16"	2' - 7 12/16"		
C931	124	#4	33	10' - 10 3/4"	903			4' - 1 8/16"	2' - 7 12/16"	4' - 1 8/16"		
C934	1000	#9	STR	7' - 9"	26350							
C940	48	#9	STR	40' - 0"	6528							
C950	644	#9	8	6' - 6 2/4"	14344	4' - 11 10/16"	1' - 7"					
C960	96	#9	8	13' - 5 1/4"	4383	11' - 10 2/16"	1' - 7"					
C962	48	#9	STR	9' - 11"	1618							

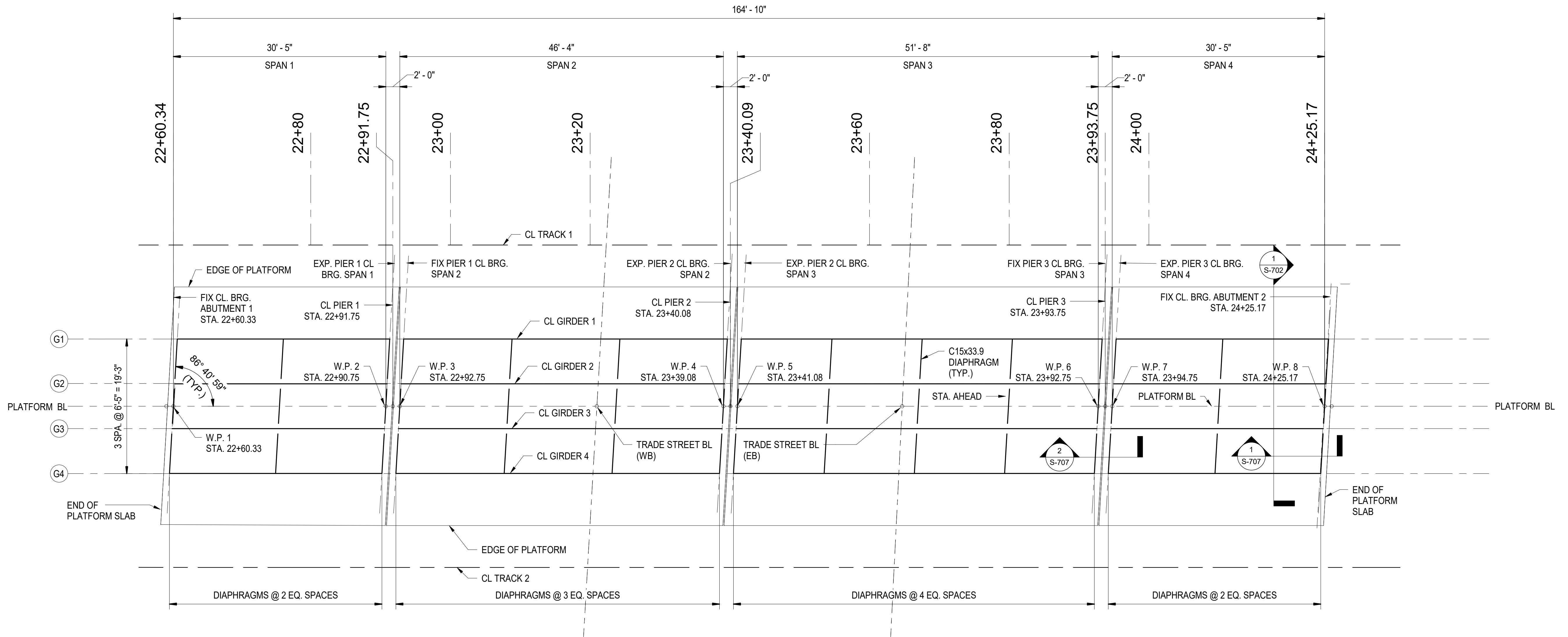


PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

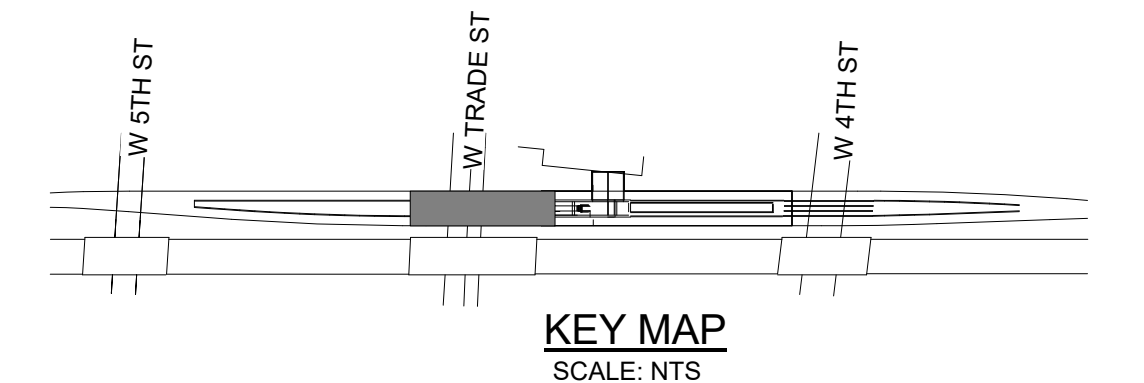
SHEET 4 OF 4

<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH REINFORCEMENT SCHEDULE		SHEET NO. S-653 TOTAL SHEETS 98																		
	HNTB HNTB NORTH CAROLINA, P.C. <small>NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</small>																				
DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>	DWG. NO. 75		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	BY	DATE	NO.	BY	DATE	1			3			2			4		
NO.	BY	DATE	NO.	BY	DATE																
1			3																		
2			4																		



1 TRADE STREET STEEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. LENGTHS TAKEN ALONG CL GIRDER.
2. GIRDER ANGLE MEASURED FROM PLATFORM BL TO CL BRG.



GIRDER SCHEDULE

SPAN	GIRDER NO.	LENGTH C-C BRG.	SECTION
1	1	30'-5"	W30x90
1	2	30'-5"	W30x90
1	3	30'-5"	W30x90
1	4	30'-5"	W30x90
2	1	46'-4"	W30x99
2	2	46'-4"	W30x99
2	3	46'-4"	W30x99
2	4	46'-4"	W30x99
3	1	51'-8"	W30x99
3	2	51'-8"	W30x99
3	3	51'-8"	W30x99
3	4	51'-8"	W30x99
4	1	30'-5"	W30x90
4	2	30'-5"	W30x90
4	3	30'-5"	W30x90
4	4	30'-5"	W30x90

WORK POINTS

	WORKING POINT	COORDINATES		PLATFORM BL STATION
		NORTH	EAST	
CL BRG. ABUTMENT 1	W.P. #1	544429.7932	1448175.9610	22+60.33
CL BRG. PIER 1	W.P. #2	544408.0427	1448154.7797	22+90.75
CL BRG. PIER 1	W.P. #3	544406.5024	1448153.2797	22+92.75
CL BRG. PIER 2	W.P. #4	544373.4325	1448021.0753	23+39.08
CL BRG. PIER 2	W.P. #5	544371.8778	1448119.5613	23+41.08
CL BRG. PIER 3	W.P. #6	544334.9822	1448083.6314	23+92.75
CL BRG. PIER 3	W.P. #7	544333.4276	1448082.1174	23+94.75
CL BRG. ABUTMENT 2	W.P. #8	544211.6986	1448060.9571	24+25.17

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TRADE STREET STEEL FRAMING PLAN

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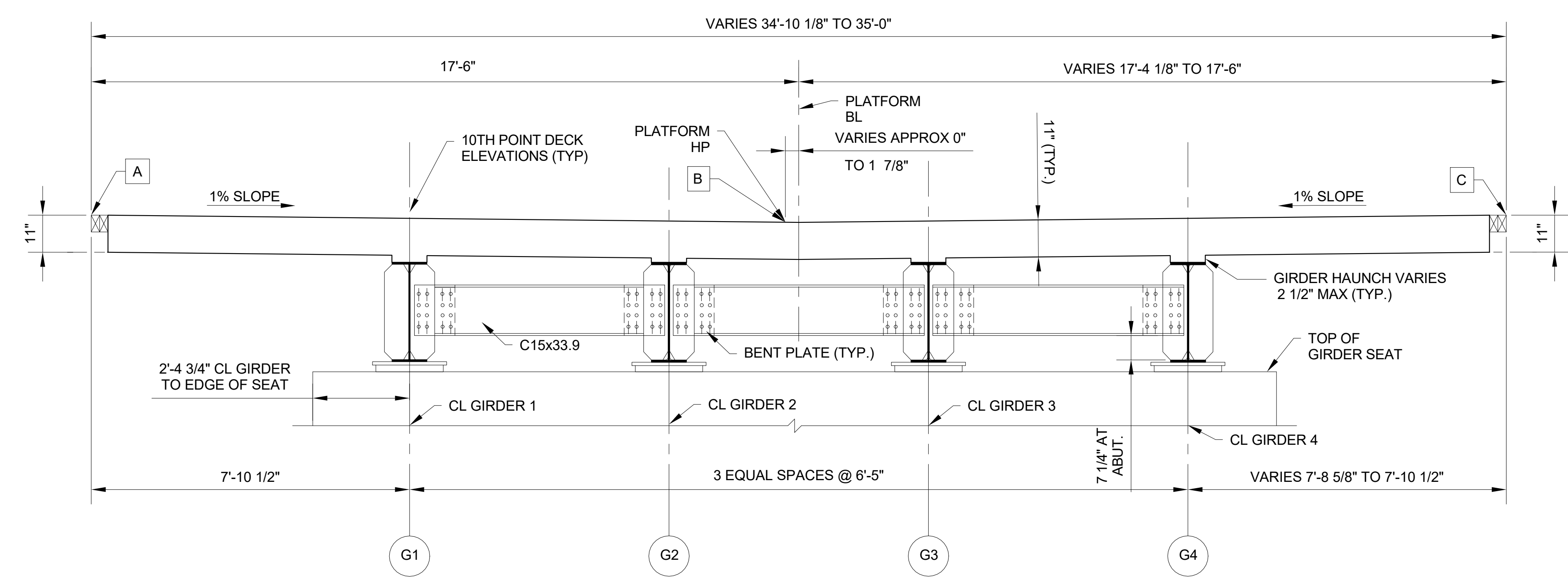
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Checked by: C. PARK

Date: 3/27/2018
Date: 3/27/2018

DWG. NO. 76

REVISIONS						SHEET NO. S-701
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			





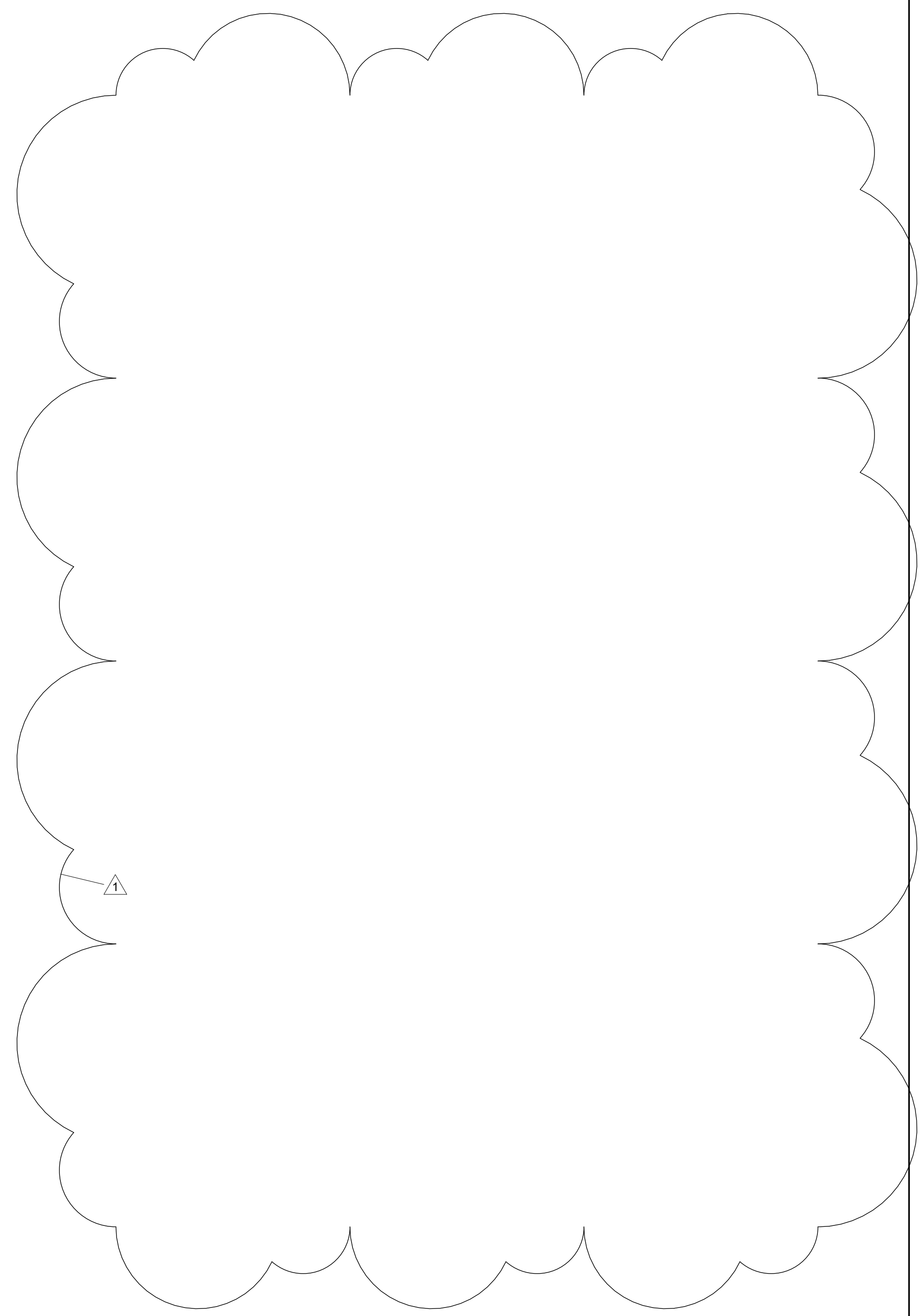
1 TRADE STREET TYPICAL SECTION
S-702 SCALE: 1/2" = 1'-0"

NOTES:
1. A, B, C DENOTE TOP OF SLAB ELEVATION.
2. SECTION VIEW IS SHOWN LOOKING STATIONS AHEAD.

TRADE STREET TOP OF DECK ELEVATION			
STATION	PT A	PT B	PT C
22+59.33	--	--	748.329
22+60.00	748.329	748.155	748.328
22+60.34	--	748.153	--
22+61.35	748.328	--	--
22+70.00	748.321	748.147	748.320
22+80.00	748.313	748.138	748.312
22+89.74	--	--	748.304
22+90.00	748.305	748.130	748.304
22+90.75	--	748.128	--
22+91.74	--	--	748.303
22+91.76	748.303	--	--
22+92.75	--	748.127	--
22+93.77	748.302	--	--
23+00.00	748.297	748.122	748.296
23+10.00	748.289	748.114	748.288
23+20.00	748.281	748.106	748.280
23+30.00	748.273	748.098	748.272
23+38.07	--	--	748.266
23+39.08	--	748.090	--
23+40.00	748.265	748.090	748.264

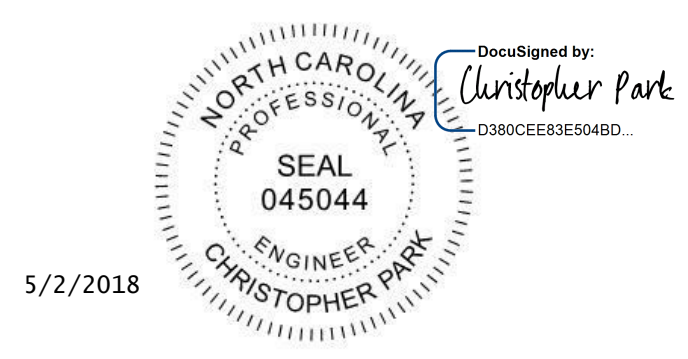
TRADE STREET TOP OF DECK ELEVATION			
STATION	PT A	PT B	PT C
23+40.07	--	--	748.264
23+40.10	748.265	--	--
23+41.09	--	748.088	--
23+42.10	748.263	--	--
23+50.00	748.257	748.082	748.256
23+60.00	748.249	748.074	748.248
23+70.00	748.241	748.066	748.240
23+80.00	748.233	748.058	748.232
23+90.00	748.225	748.050	748.224
23+91.74	--	--	748.223
23+92.75	--	748.046	--
23+93.74	--	--	748.221
23+93.76	748.222	--	--
23+94.75	--	748.045	--
23+95.31	748.220	--	--
24+00.00	748.217	748.042	748.216
24+10.00	748.209	748.034	748.209
24+20.00	748.201	748.026	748.201
24+24.15	--	--	748.197
24+25.16	--	748.022	--
24+26.18	748.196	--	--

TABLE OF GIRDER SEAT ELEVATIONS					
LOCATION		GIRDER NUMBER			
		1	2	3	4
SPAN 1	CL BRG. ABUT. 1	744.466	744.466	744.466	744.466
	CL BRG. PIER 1	744.424	744.424	744.424	744.424
SPAN 2	CL BRG. PIER 1	744.424	744.424	744.424	744.424
	CL BRG. PIER 2	744.386	744.386	744.386	744.386
SPAN 3	CL BRG. PIER 2	744.386	744.386	744.386	744.386
	CL BRG. PIER 3	744.344	744.344	744.344	744.344
SPAN 4	CL BRG. PIER 3	744.344	744.344	744.344	744.344
	CL BRG. ABUT. 2	744.334	744.334	744.334	744.334



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PROJECT NO. 19+68.93 -S1-



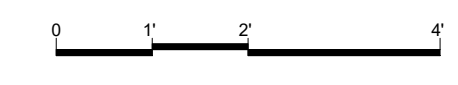
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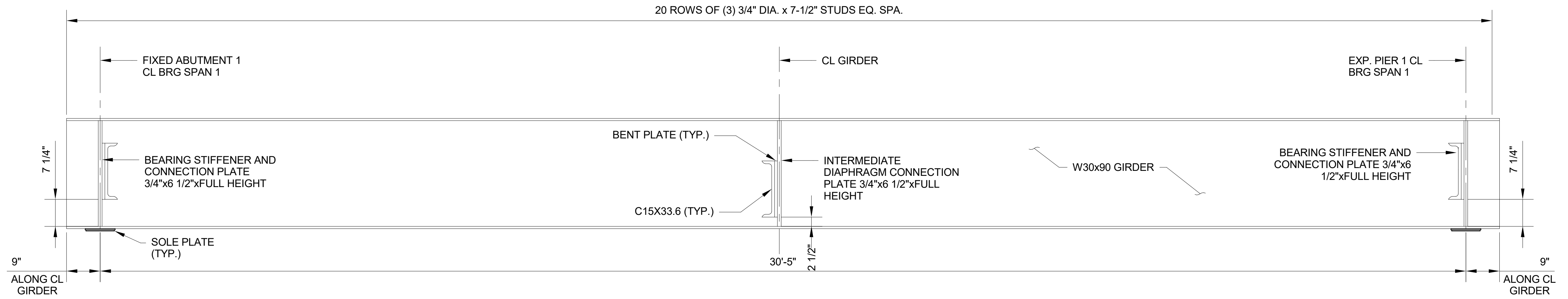
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DEPARTMENT OF TRANSPORTATION
RALEIGH

TRADE STREET TYPICAL SECTION ONLY AT ABUTMENTS & PLATFORM SLAB ELEVATIONS

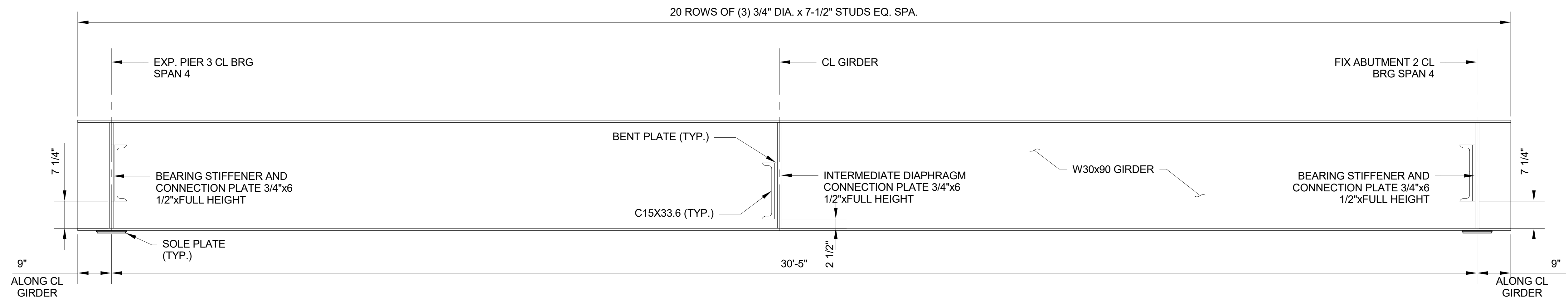
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DWG. NO. 77

REVISIONS						SHEET NO. S-702
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			





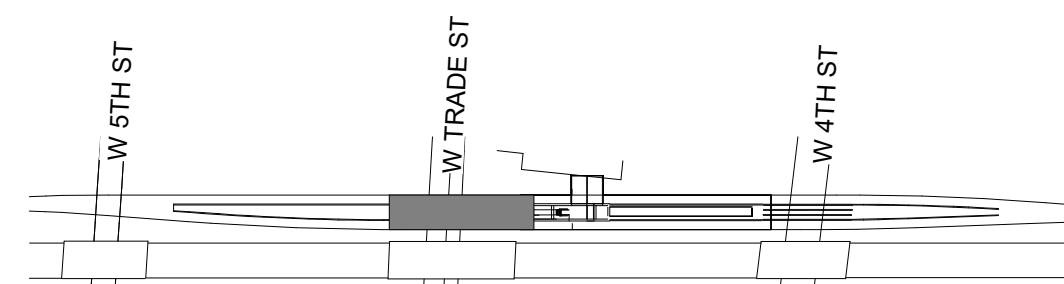
TRADE STREET GIRDER ELEVATION
SPAN 1
 1
 S-703 SCALE: 3/4" = 1'-0"



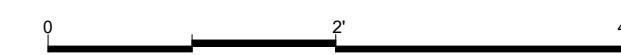
TRADE STREET GIRDER ELEVATION
SPAN 4
 2
 S-703 SCALE: 3/4" = 1'-0"

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KEY MAP
 SCALE: NTS



4/5/2018



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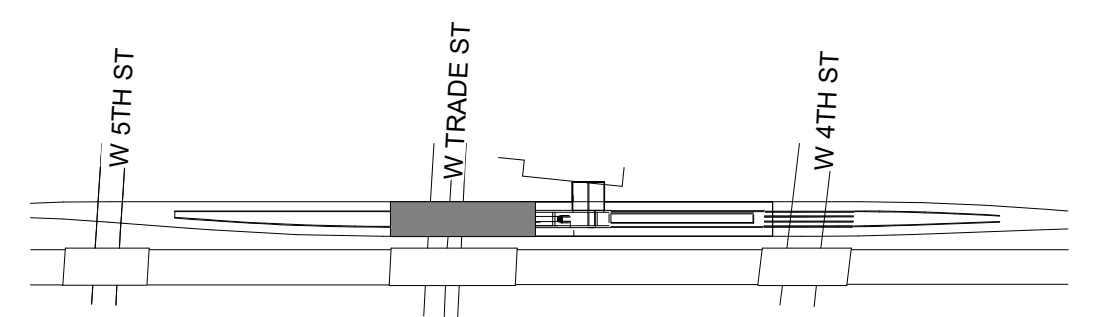
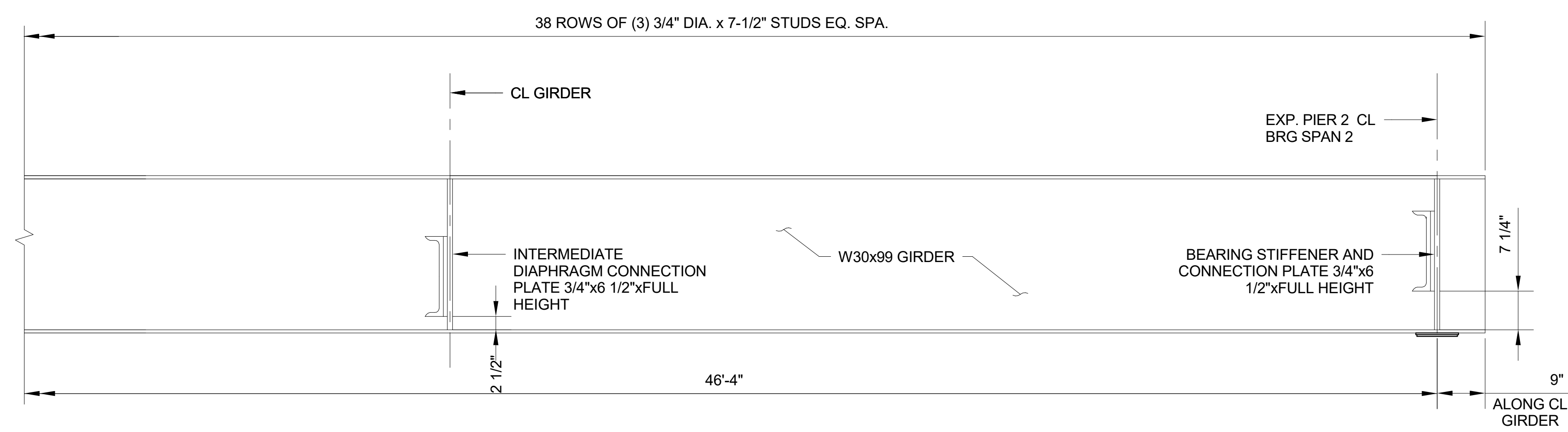
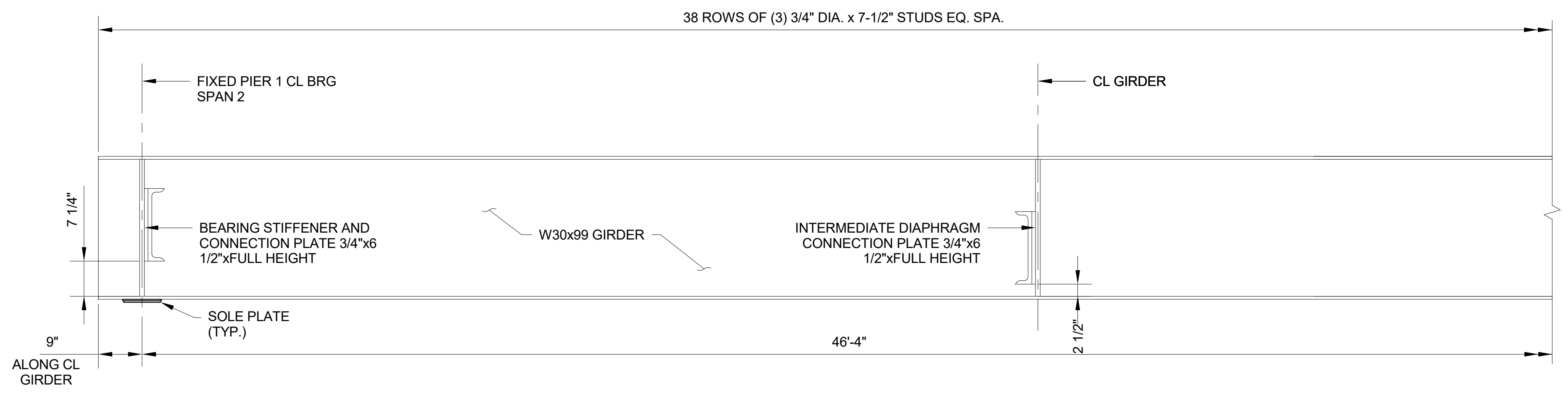
STATE OF NORTH CAROLINA
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TRADE STREET GIRDER
 ELEVATION - SPAN 1 & 4

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REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-703
1			3			TOTAL SHEETS
2			4			98



**TRADE STREET GIRDER ELEVATION
SPAN 2**

1
S-704 SCALE: 3/4" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

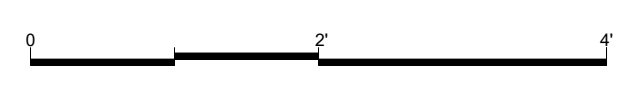
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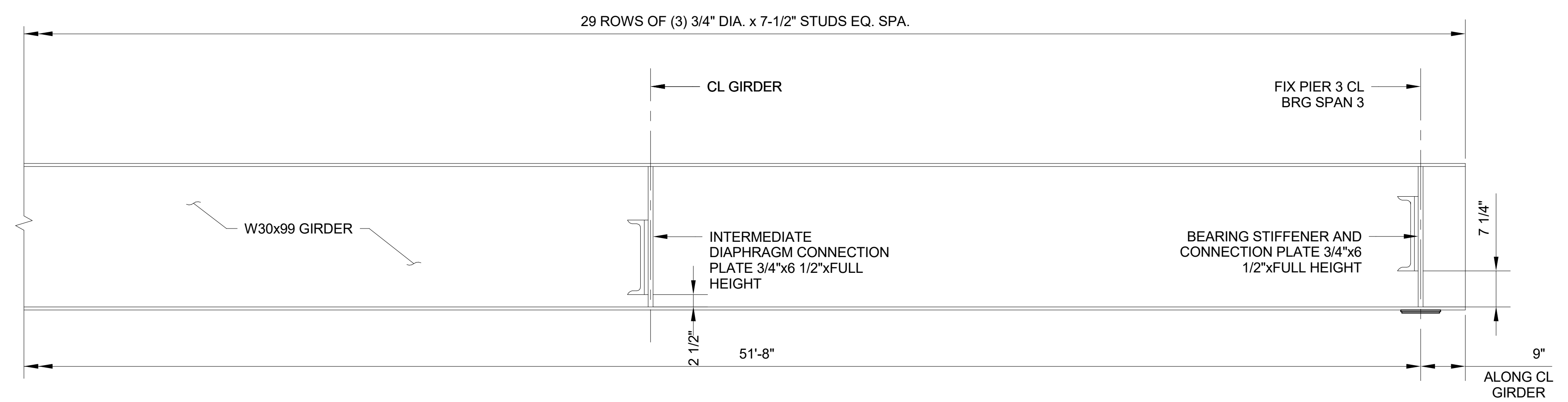
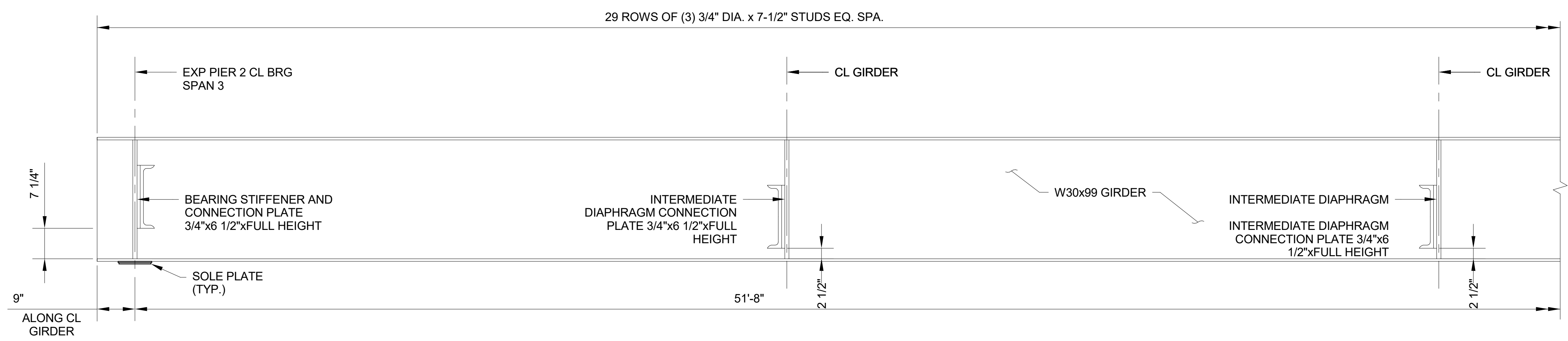
**TRADE STREET GIRDER
ELEVATION - SPAN 2**



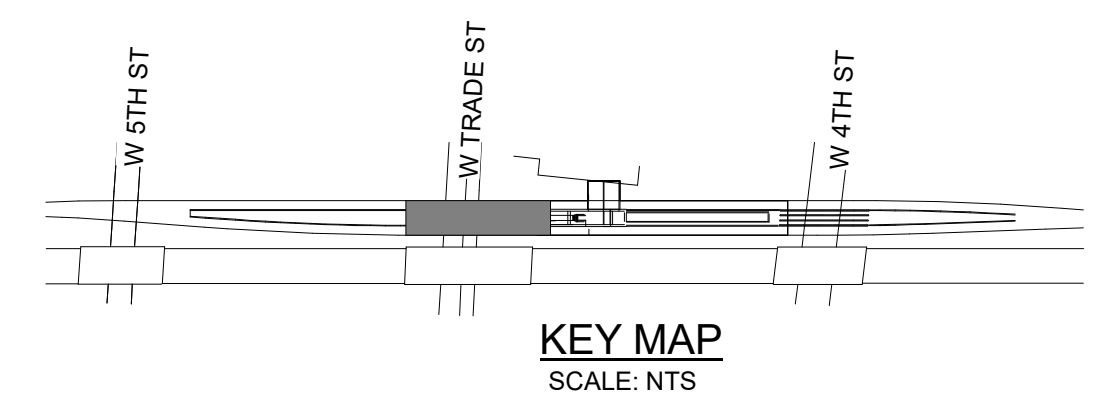
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REVISIONS						SHEET NO. S-704
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

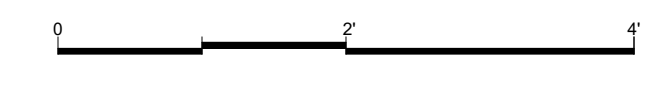


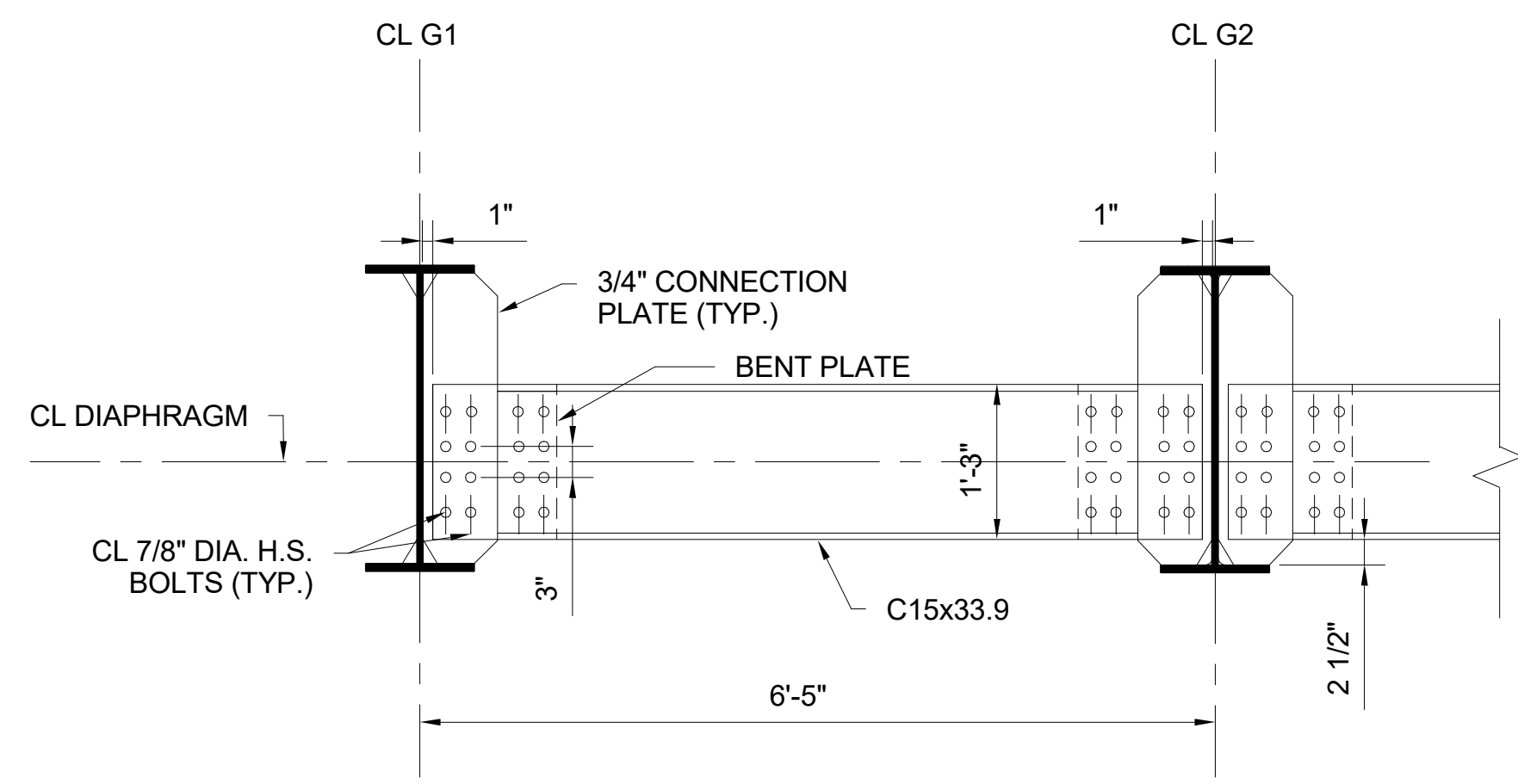
TRADE STREET GIRDER ELEVATION
SPAN 3
 1
 S-705 SCALE: 3/4" = 1'-0"



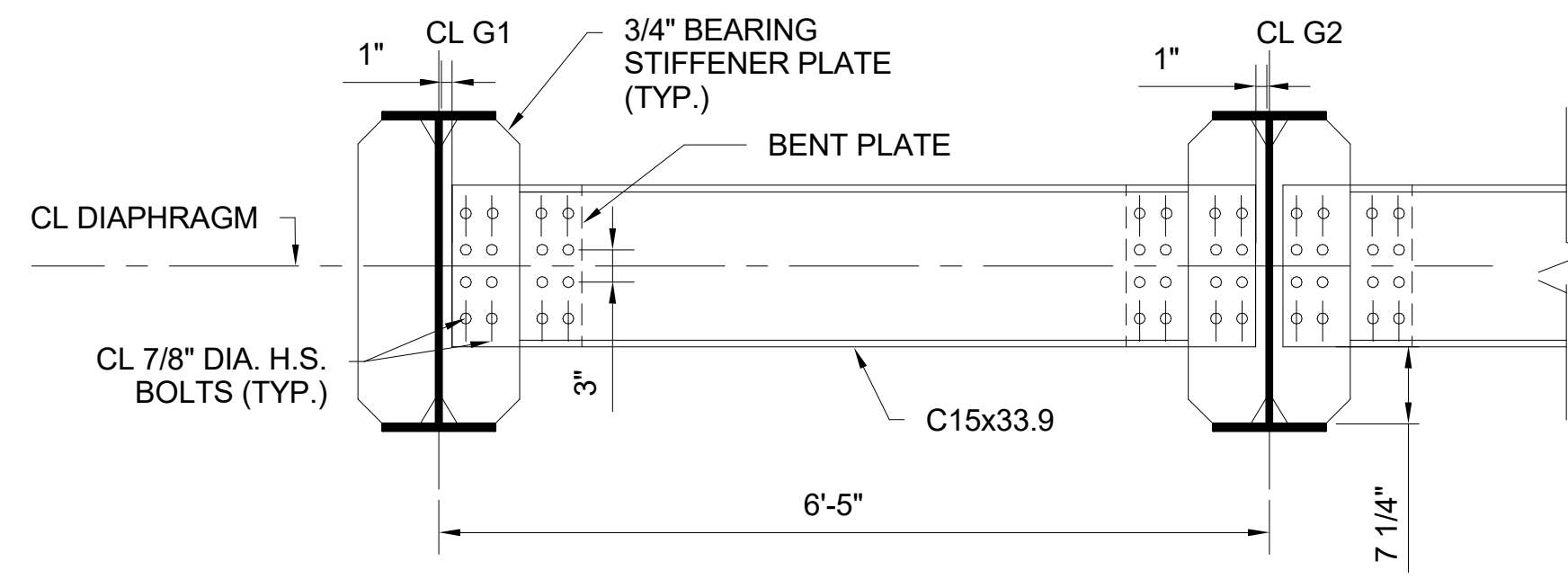
PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

<p>4/5/2018 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045044 CHRISTOPHER PARK</p>		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH TRADE STREET GIRDER ELEVATION - SPAN 3		SHEET NO.		
				S-705		
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS				TOTAL SHEETS 98
		NO.	BY	DATE	NO.	
DRAWN BY <u>D. TRACZYKIEWICZ</u> DATE <u>3/27/2018</u> CHECKED BY <u>C. PARK</u> DATE <u>3/27/2018</u>		DWG. NO. 80		1	3	
				2	4	

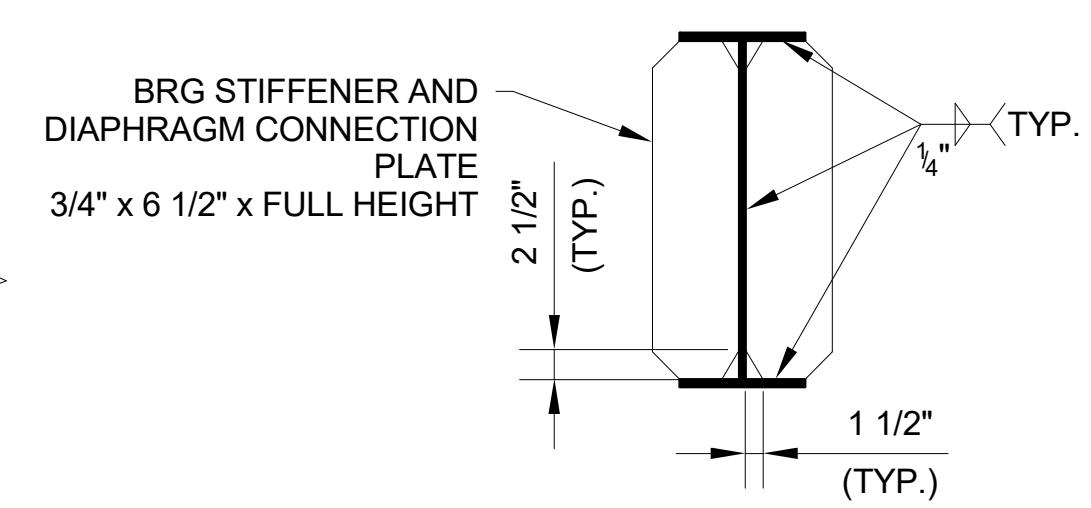




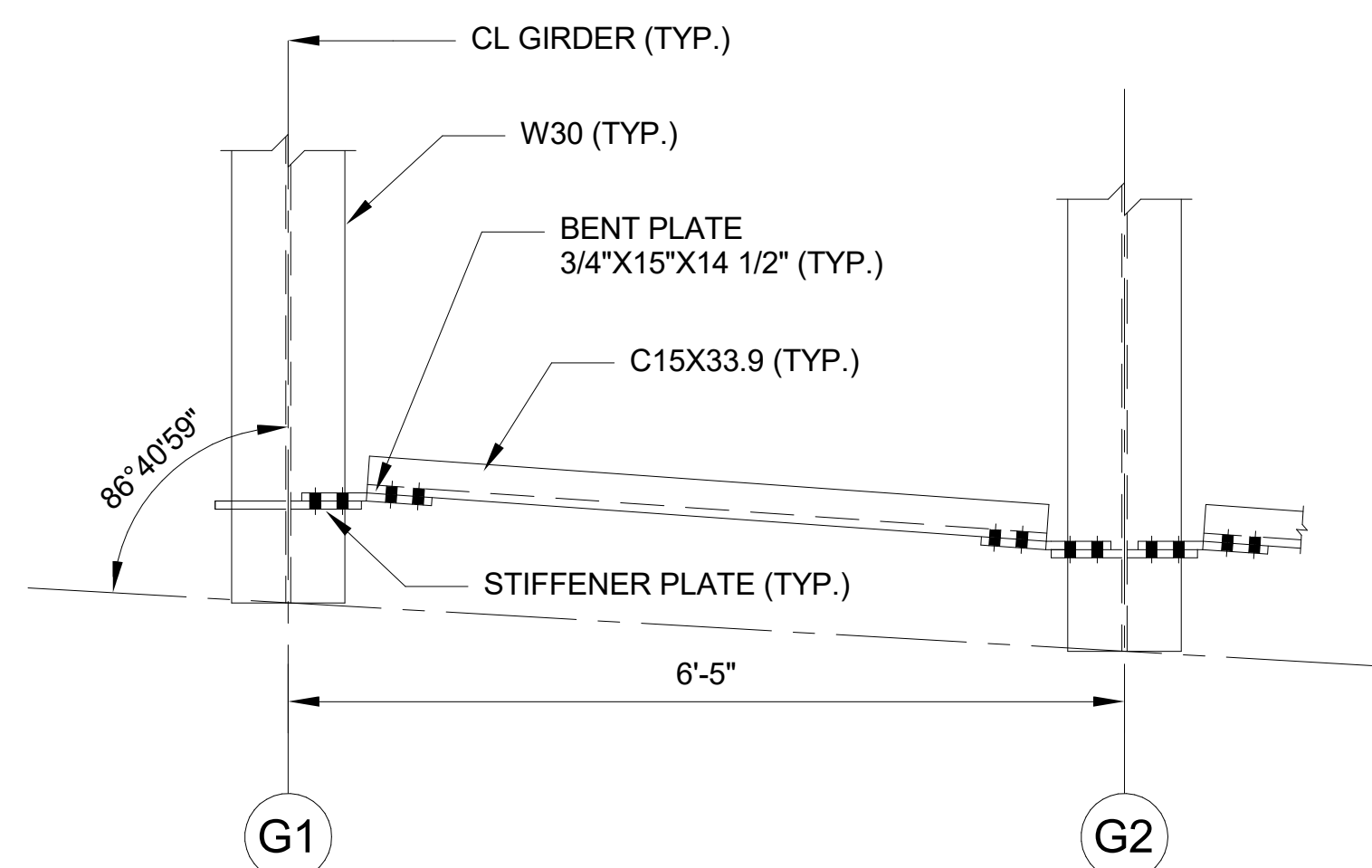
1 TRADE ST INTERMEDIATE DIAPHRAGM
S-706 SCALE: 3/4" = 1'-0"



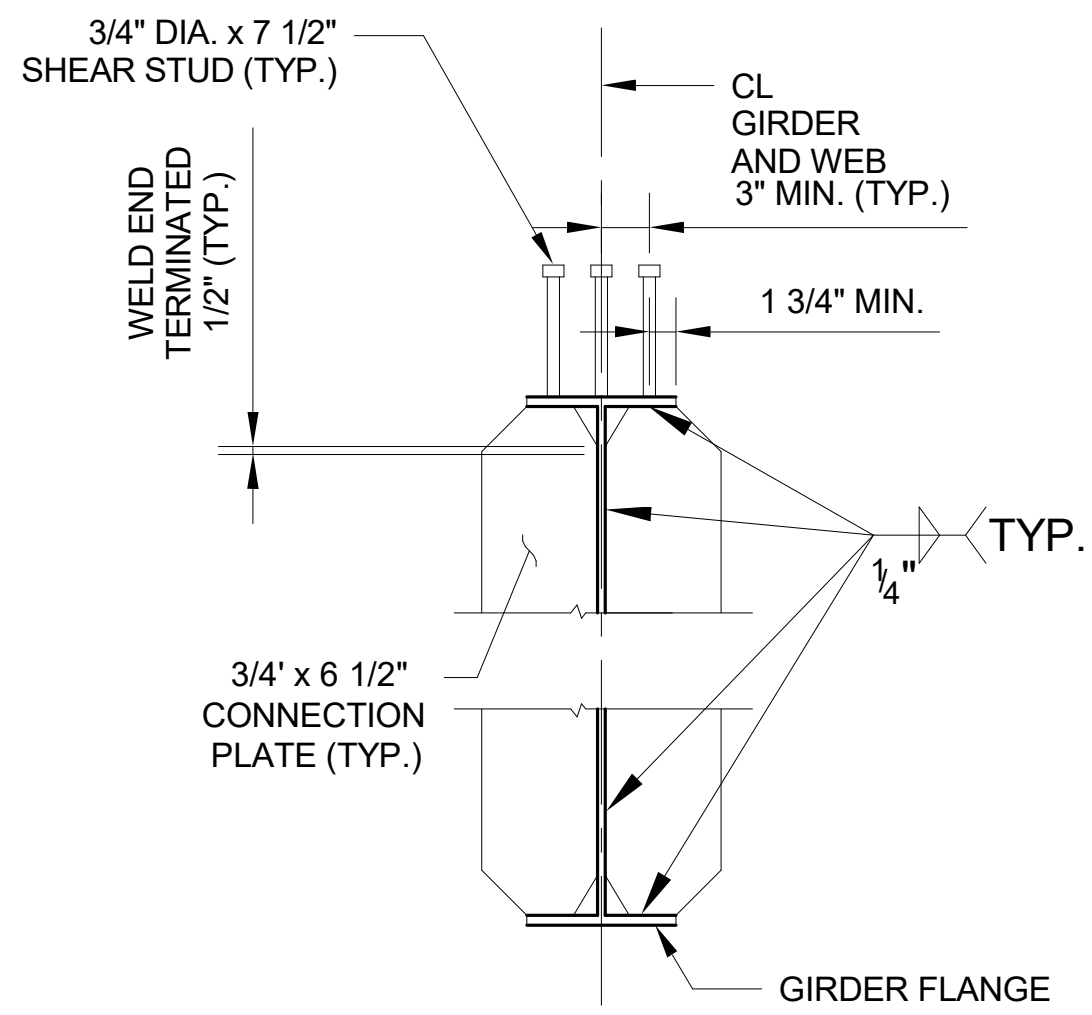
2 TRADE STREET END DIAPHRAGM
S-706 SCALE: 3/4" = 1'-0"



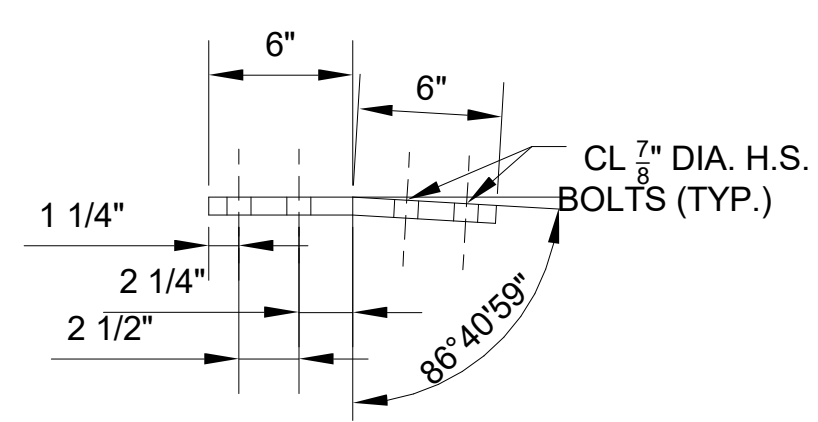
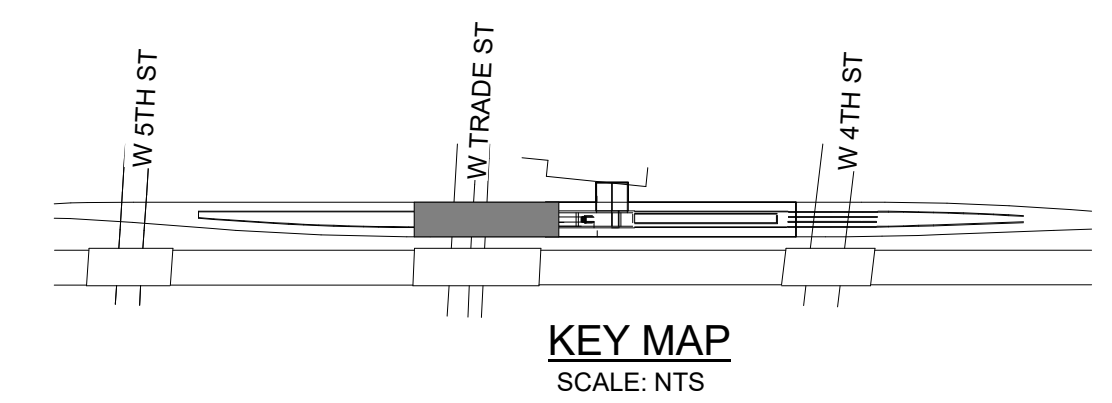
3 TRADE STREET BEARING STIFFENER AND DIAPHRAGM CONNECTION PLATE
S-706 SCALE: 3/4" = 1'-0"



4 TRADE STREET DIAPHRAGM PLAN VIEW
S-706 SCALE: 3/4" = 1'-0"



5 TRADE STREET SHEAR CONNECTOR
S-706 SCALE: 1" = 1'-0"



6 TRADE STREET DIAPHRAGM BENT PLATE
S-706 SCALE: 1 1/2" = 1'-0"

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

4/5/2018

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRADE STREET TYPICAL STEEL DETAILS

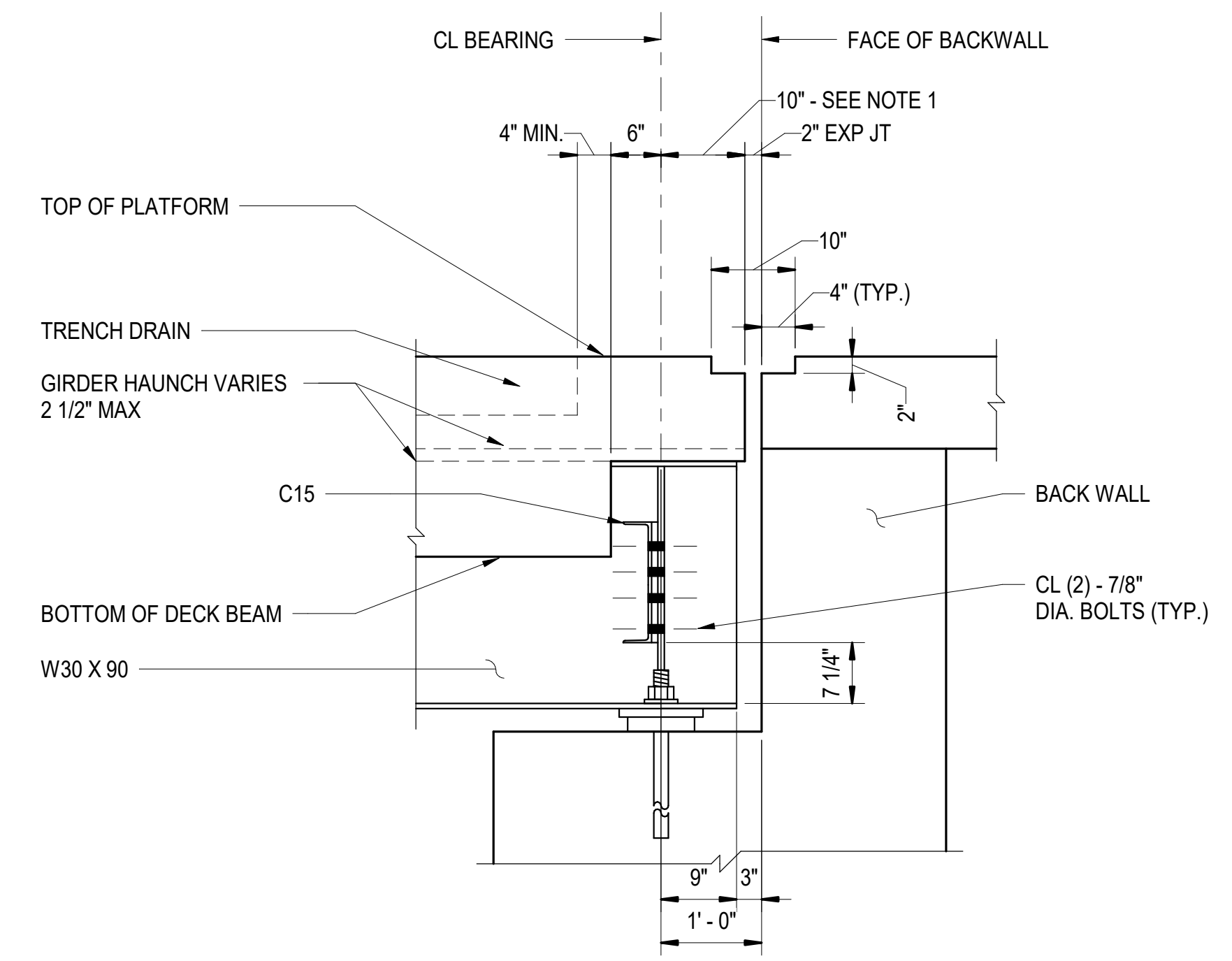
REVISIONS						SHEET NO. S-706
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

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DWG. NO. 81

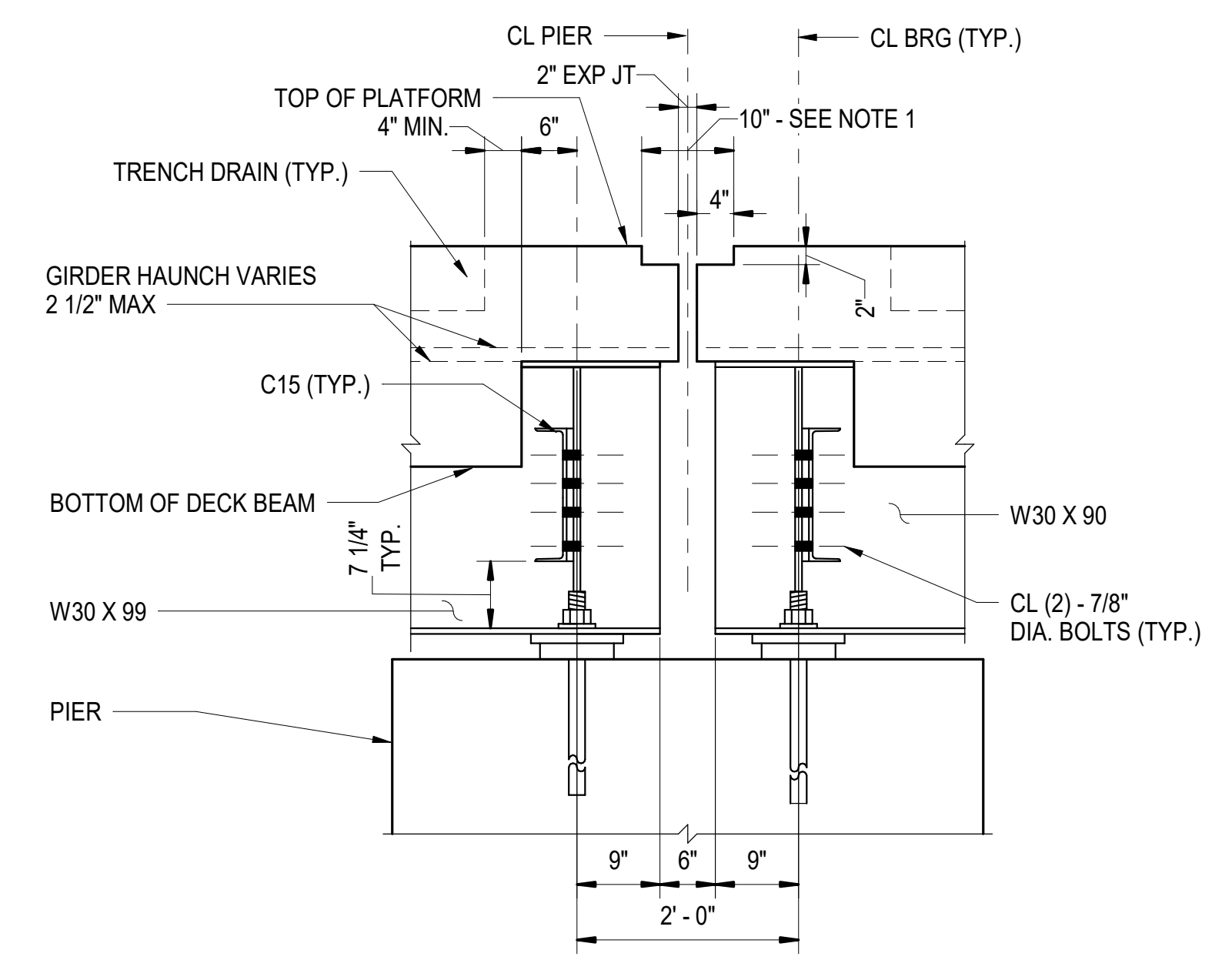




TRADE STREET GIRDER SEAT SECTION AT ABUTMENT

1
S-707

SCALE: 3/4" = 1'-0"



TRADE STREET GIRDER SEAT SECTION AT PIER

2
S-707

SCALE: 3/4" = 1'-0"

NOTES:

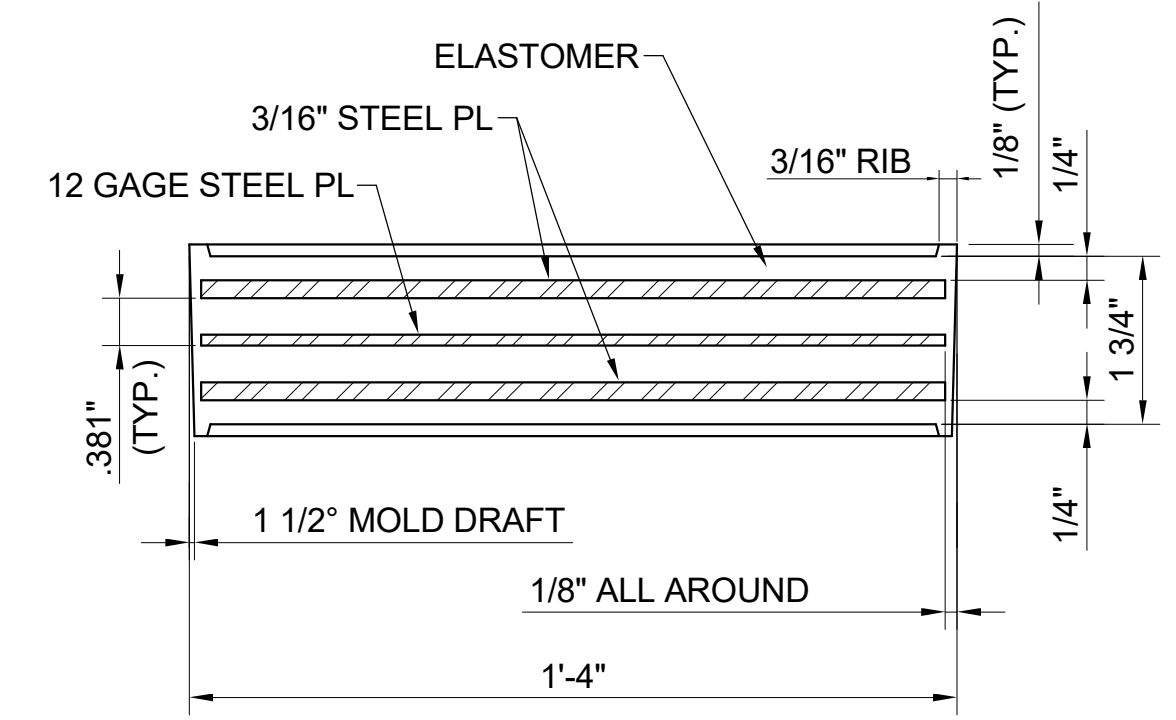
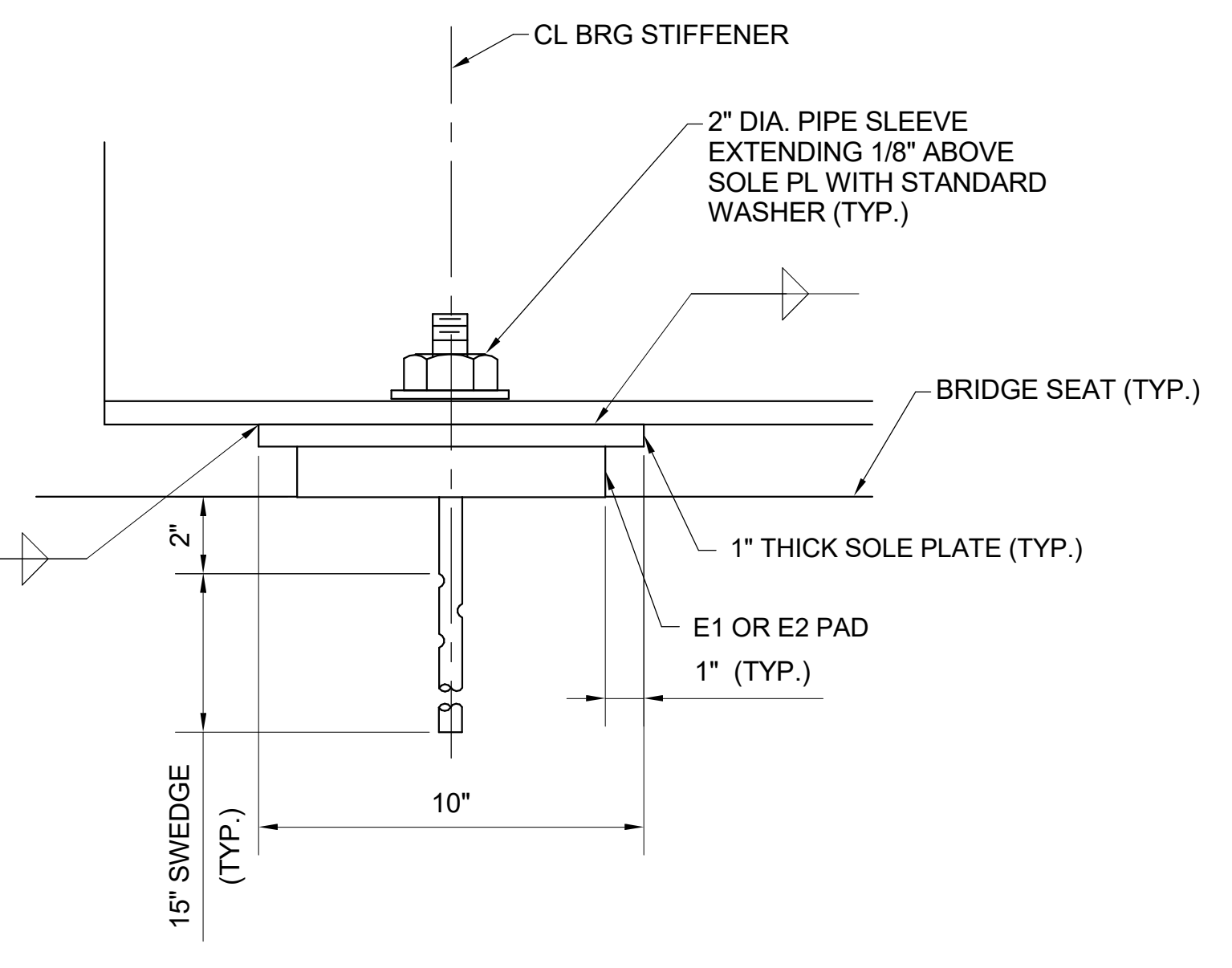
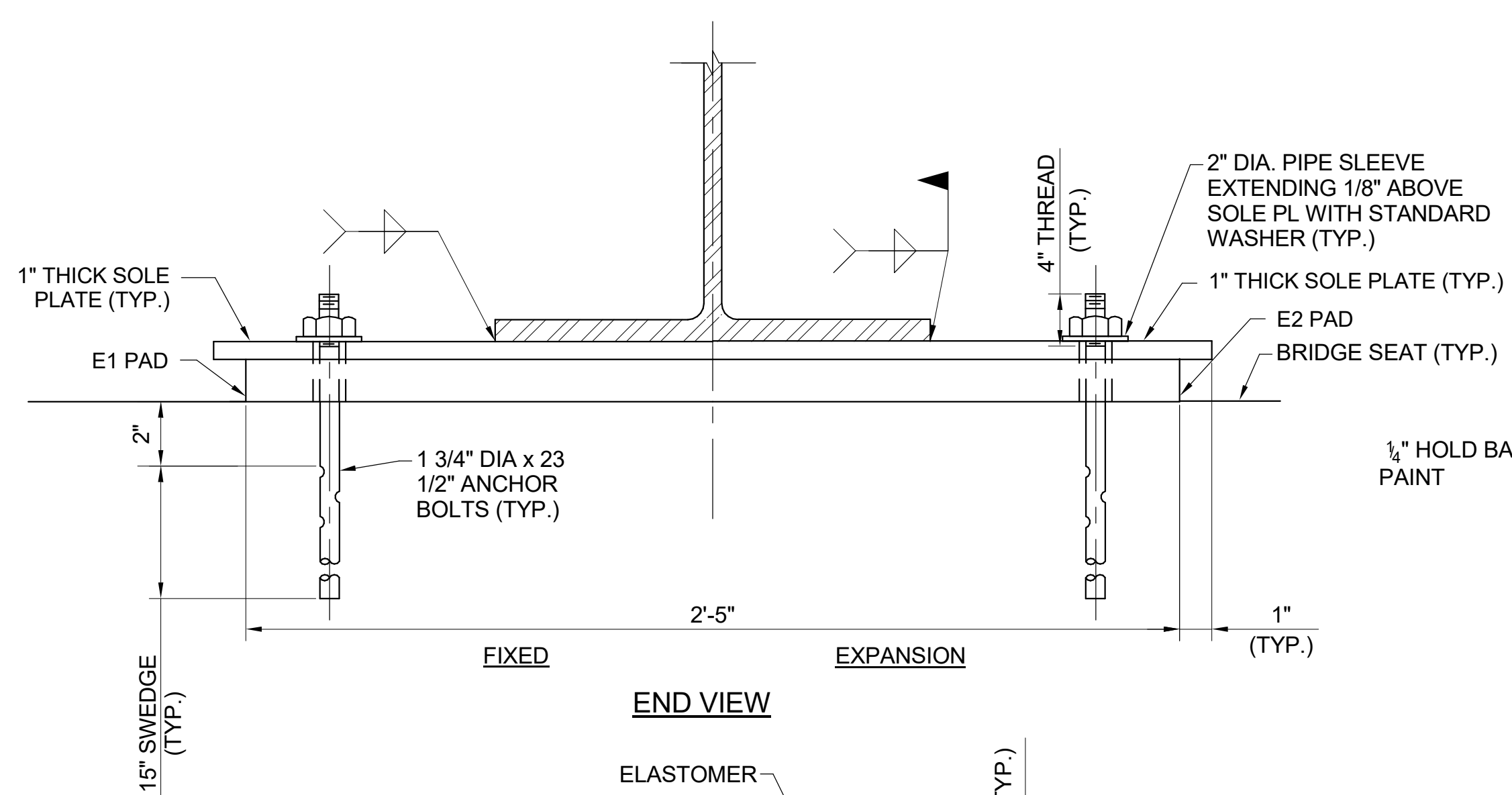
- 1. FOR EXPANSION JOINT AND COVER DETAILS REFER TO ARCHITECTURE DRAWINGS.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2

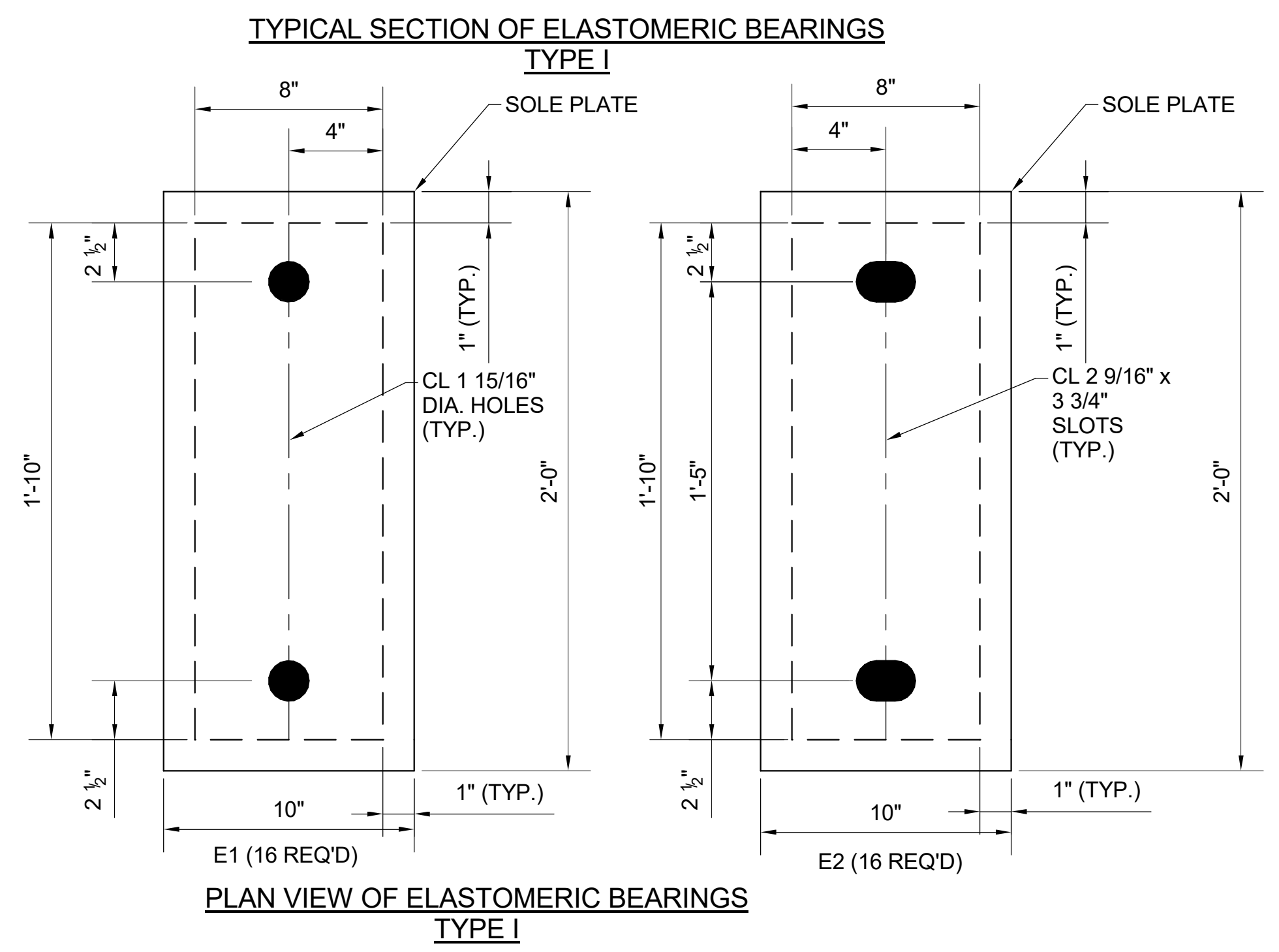
<p>4/5/2018</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	<p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH</p> <p>TRADE STREET TYPICAL STEEL DETAILS</p>		<p>SHEET NO. S-707</p>																							
	<p>HNTB HNTB NORTH CAROLINA, P.C. <small>NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</small></p>																									
<p>DRAWN BY: <u>Author</u> CHECKED BY: <u>Checker</u></p>	<p>DATE: <u>03/23/18</u> DATE: <u>03/23/18</u></p>	<p>DWG. NO. 82</p>	<table border="1"> <thead> <tr> <th colspan="5">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	REVISIONS					NO.	BY	DATE	NO.	BY	DATE	1			3			2			4		
REVISIONS																										
NO.	BY	DATE	NO.	BY	DATE																					
1			3																							
2			4																							
<p>TOTAL SHEETS 98</p>			<p>TOTAL SHEETS 98</p>																							



BEARING PAD TABLE

SPAN	GIRDER	BEARING TYPE	
		NORTH	SOUTH
1	1	E1	E2
1	2	E1	E2
1	3	E1	E2
1	4	E1	E2
2	1	E1	E2
2	2	E1	E2
2	3	E1	E2
2	4	E1	E2
3	1	E2	E1
3	2	E2	E1
3	3	E2	E1
3	4	E2	E1
4	1	E2	E1
4	2	E2	E1
4	3	E2	E1
4	4	E2	E1

E1 FOR FIXED END
E2 FOR EXPANSION END



TRADE STREET ELASTOMERIC BEARINGS DETAIL
1 S-708 SCALE: 3" = 1'-0"

NOTES:

- AT ALL FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.
- THE 2" DIA. PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40 PVC PLASTIC PIPE. THE PVC PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785.
- THE PAYMENT OF THE SLEEVES SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.
- FOR PAINTED STRUCTURAL STEEL (EXCLUDING AASHTO M270 GRADE 50W), SOLE PLATES, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FOR AASHTO M270 GRADE 50W STRUCTURAL STEEL, SOLE PLATE SHALL NOT BE GALVANIZED. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. SHAOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.
- WHEN FIELD WELDING THE SOLE PLATE TO THE GIRDER FLANGE, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300° F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.
- ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.
- THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI. IN ACCORDANCE WITH AASHTO M251.
- FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FOLLOWING PROCEDURE, WHICH MAY BE REQUIRED BY THE ENGINEER, TO RESET ELASTOMERIC BEARINGS DUE TO GIRDER TRANSLATION AND END ROTATION.
 - ONCE THE DECK HAS CURED, THE GIRDERS SHALL BE JACKED AND THE ELASTOMERIC BEARING SLOTS CENTERED AS NEARLY AS PRACTICAL ABOUT THE BEARING STIFFENER. THIS OPERATION SHALL BE PERFORMED AT APPROXIMATELY 60° F.
- THE CONTRACTOR MAY PROPOSE ALTERNATE METHODS, PROVIDED DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

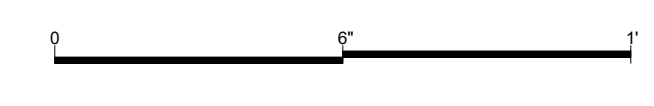
PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-



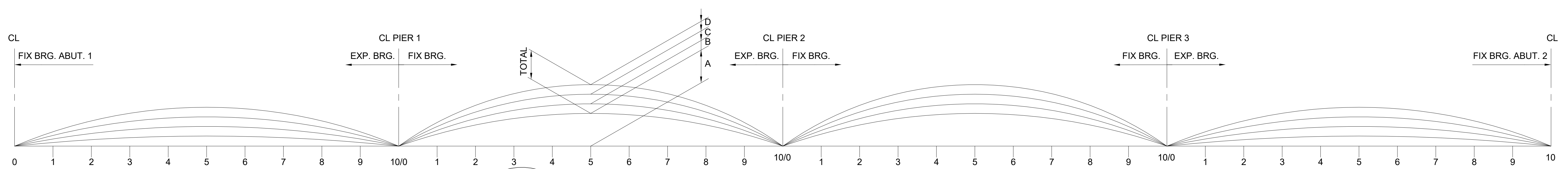
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
TRADE STREET BEARING DETAILS

HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		DWG. NO. 83		SHEET NO. S-708	
DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK		DATE: 3/27/2018 DATE: 3/27/2018		REVISIONS	
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
TOTAL SHEETS					98



0012DEL_P28
1001ADD_P28



1 TRADE ST CAMBER DIAGRAM
S-709 SCALE: 3/4" = 1'-0"

GIRDER NO.	DEFLECTIONS	SPAN 1										SPAN 2											
		0.0 L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	1.0 L	0.0 L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	1.0 L
G1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	B	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	-0.03	-0.06	-0.08	-0.10	-0.09	-0.08	-0.06	-0.03	0.00	0.00
	C	0.00	-0.12	-0.23	-0.31	-0.36	-0.38	-0.35	-0.29	-0.20	-0.09	0.03	0.10	-0.41	-0.89	-1.26	-1.49	-1.58	-1.49	-1.26	-0.89	-0.42	0.10
	D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TOTAL	0.00	-0.13	-0.24	-0.33	-0.38	-0.40	-0.37	-0.31	-0.21	-0.09	0.03	0.11	-0.44	-0.95	-1.35	-1.60	-1.69	-1.60	-1.35	-0.95	-0.45	0.11
G2	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	B	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	-0.03	-0.06	-0.08	-0.10	-0.10	-0.10	-0.08	-0.06	-0.03	0.00
	C	0.00	-0.07	-0.14	-0.19	-0.22	-0.22	-0.21	-0.18	-0.12	-0.05	0.02	0.08	-0.32	-0.68	-0.96	-1.14	-1.21	-1.14	-0.96	-0.68	-0.32	0.08
	D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TOTAL	0.00	-0.08	-0.15	-0.21	-0.24	-0.25	-0.23	-0.19	-0.13	-0.06	0.02	0.08	-0.35	-0.74	-1.05	-1.25	-1.32	-1.25	-1.05	-0.74	-0.35	0.08
G3	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	B	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	-0.03	-0.06	-0.08	-0.10	-0.10	-0.10	-0.08	-0.06	-0.03	0.00
	C	0.00	-0.07	-0.14	-0.19	-0.22	-0.22	-0.21	-0.18	-0.12	-0.05	0.02	0.08	-0.32	-0.68	-0.96	-1.14	-1.21	-1.14	-0.96	-0.68	-0.32	0.08
	D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TOTAL	0.00	-0.08	-0.15	-0.21	-0.24	-0.25	-0.23	-0.19	-0.14	-0.06	0.02	0.08	-0.35	-0.74	-1.05	-1.25	-1.32	-1.25	-1.05	-0.74	-0.35	0.08
G4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	B	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	-0.03	-0.06	-0.08	-0.09	-0.10	-0.09	-0.08	-0.06	-0.03	0.00
	C	0.00	-0.12	-0.23	-0.31	-0.36	-0.38	-0.35	-0.29	-0.20	-0.09	0.03	0.10	-0.41	-0.88	-1.26	-1.49	-1.58	-1.49	-1.26	-0.88	-0.42	0.10
	D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TOTAL	0.00	-0.13	-0.24	-0.33	-0.39	-0.40	-0.37	-0.31	-0.21	-0.09	0.03	0.11	-0.44	-0.95	-1.35	-1.60	-1.69	-1.60	-1.35	-0.95	-0.45	0.11

SPAN 3											SPAN 4										
0.0 L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	1.0 L	0.0 L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	1.0 L
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.01	-0.04	-0.09	-0.12	-0.14	-0.15	-0.14	-0.12	-0.09	-0.04	0.01	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00
0.14	-0.63	-1.33	-1.89	-2.24	-2.36	-2.24	-1.89	-1.34	-0.63	0.14	0.03	-0.08	-0.19	-0.28	-0.34	-0.37	-0.35	-0.30	-0.22	-0.12	0.00
0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.15	-0.68	-1.43	-2.02	-2.40	-2.52	-2.40	-2.02	-1.43	-0.68	0.15	0.03	-0.09	-0.20	-0.30	-0.36	-0.39	-0.37	-0.32	-0.24	-0.12	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.01	-0.04	-0.09	-0.12	-0.14	-0.15	-0.14	-0.12	-0.09	-0.04	0.01	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00
0.11	-0.51	-1.08	-1.53	-1.81	-1.91	-1.81	-1.53	-1.08	-0.51	0.11	0.02	-0.05	-0.12	-0.17	-0.20	-0.22	-0.21	-0.18	-0.13	-0.07	0.00
0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.12	-0.56	-1.18	-1.66	-1.97	-2.08	-1.97	-1.66	-1.18	-0.56	0.12	0.02	-0.06	-0.13	-0.19	-0.22	-0.24	-0.23	-0.20	-0.15	-0.08	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.01	-0.04	-0.09	-0.12	-0.14	-0.15	-0.14	-0.12	-0.09	-0.04	0.01	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	0.00
0.14	-0.63	-1.33	-1.89	-2.24	-2.36	-2.24	-1.89	-1.33	-0.63	0.14	0.03	-0.08	-0.19	-0.28	-0.34	-0.37	-0.35	-0.30	-0.22	-0.12	0.00
0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.15	-0.68	-1.43	-2.02	-2.39	-2.52	-2.39	-2.02	-1.43	-0.68	0.15	0.03	-0.09	-0.20	-0.30	-0.36	-0.39	-0.37	-0.32	-0.23	-0.12	0.00

A - PROFILE GRADE
B - SUPERIMPOSED DEAD LOAD
C - DEAD LOAD, SLAB, HAUNCHES AND SIP
D - DEADLOAD STEEL

NOTE:
CAMBER VALUES ARE THEORETICAL AND MAY VARY.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



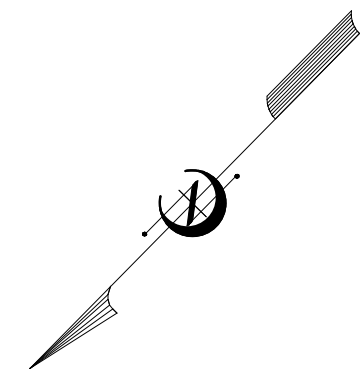
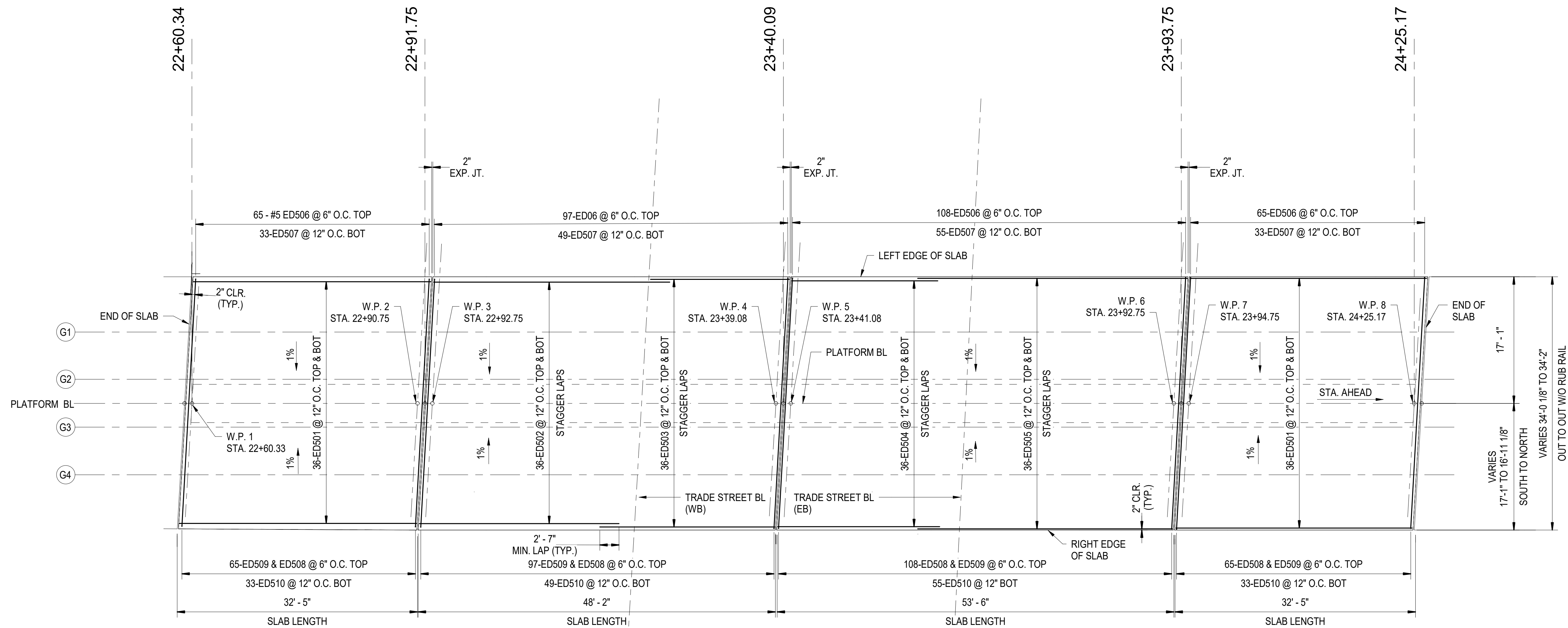
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

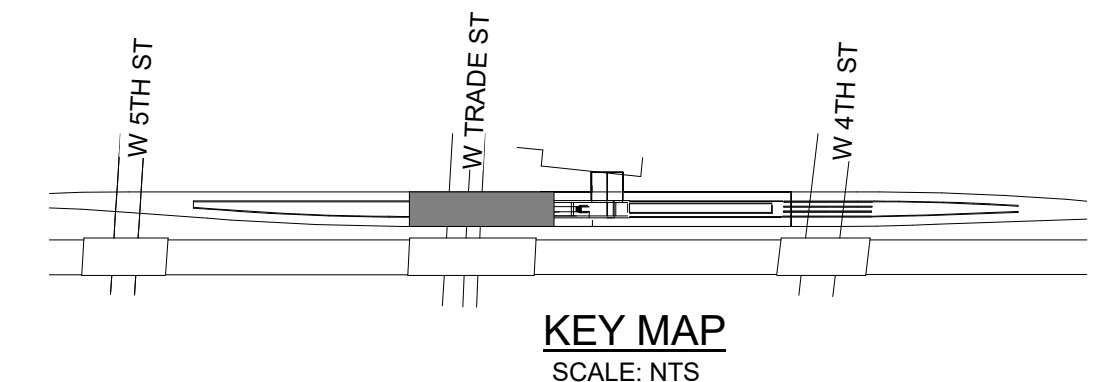
TRADE STREET GIRDER
CAMBER TABLE

HNTB HNTB NORTH CAROLINA, P.C.
NC License No. C-1554
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609
DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 84

REVISIONS						SHEET NO. S-709
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



1
S-710
TRADE STREET STEEL REINFORCING PLAN
SCALE: 1/8" = 1'-0"

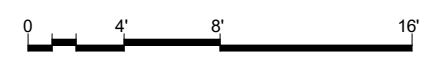


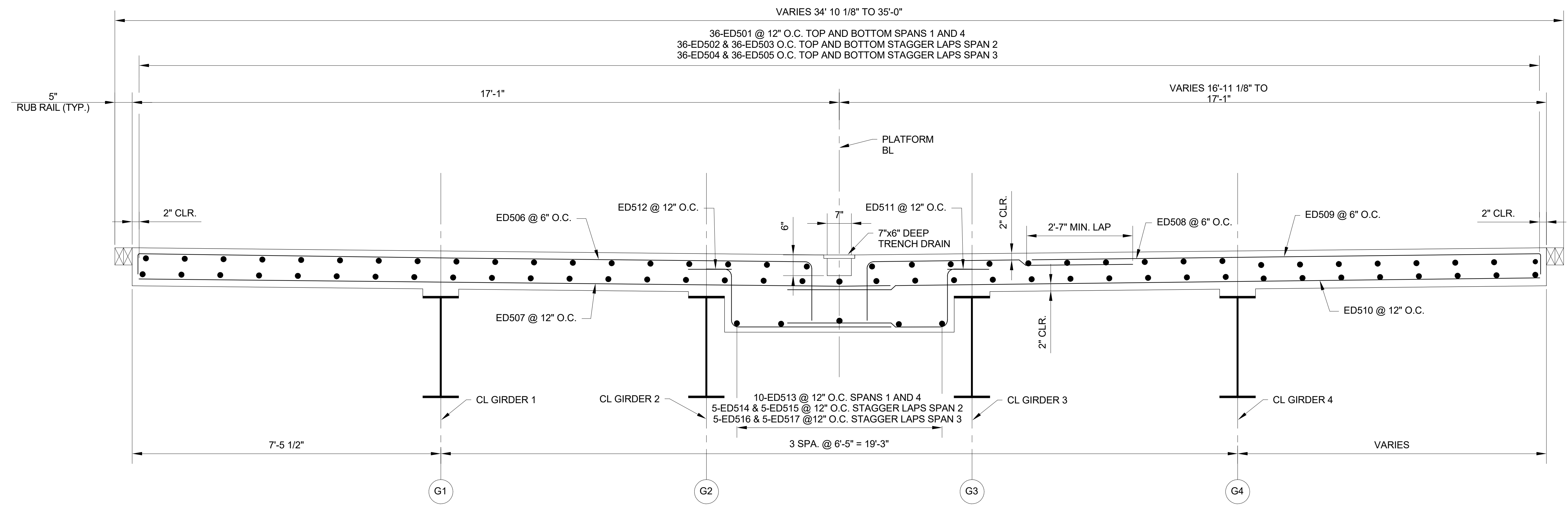
NOTES:

1. PLACE LONGITUDINAL BARS WITH STAGGERED LAPS.
2. ALL DECK REINFORCEMENT SHALL BE EPOXY COATED.
3. % DENOTES DECK SLOPE AND DIRECTION.
4. THE PLATFORM TRENCH DRAIN SHALL BE LOCATED ALONG THE CENTERLINE OF PLATFORM EQUALLY BETWEEN THE EDGES OF SLAB.

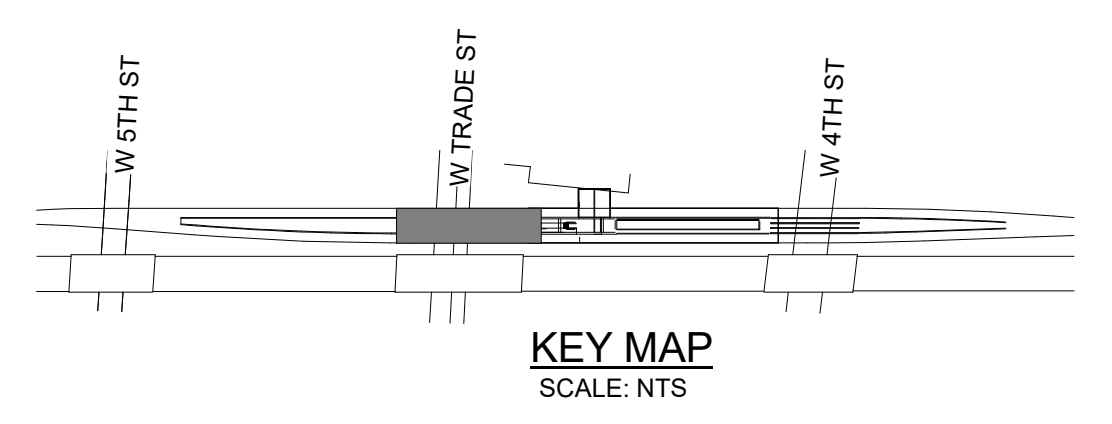
PROJECT NO. P-5705BB
MECKLENBURG COUNTY
 PROJECT NO. 19+68.93 -S1-

<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH TRADE STREET SLAB REINFORCEMENT PLAN		SHEET NO. S-710																		
					REVISIONS																	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609	DRAWN BY: <u>D. TRACZYKIEWICZ</u> DATE: <u>3/27/2018</u> CHECKED BY: <u>C. PARK</u> DATE: <u>3/27/2018</u>	DWG. NO. 85	<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	BY	DATE	NO.	BY	DATE	1			3			2			4			TOTAL SHEETS 98
NO.	BY	DATE	NO.	BY	DATE																	
1			3																			
2			4																			





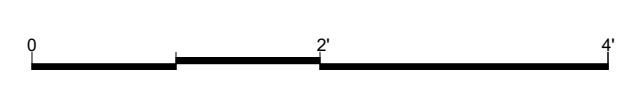
1 TRADE STREET SLAB SECTION
 S-711 SCALE: 3/4" = 1'-0"



PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

NOTES:
 1. SECTION VIEW IS SHOWN LOOKING STATIONS AHEAD.

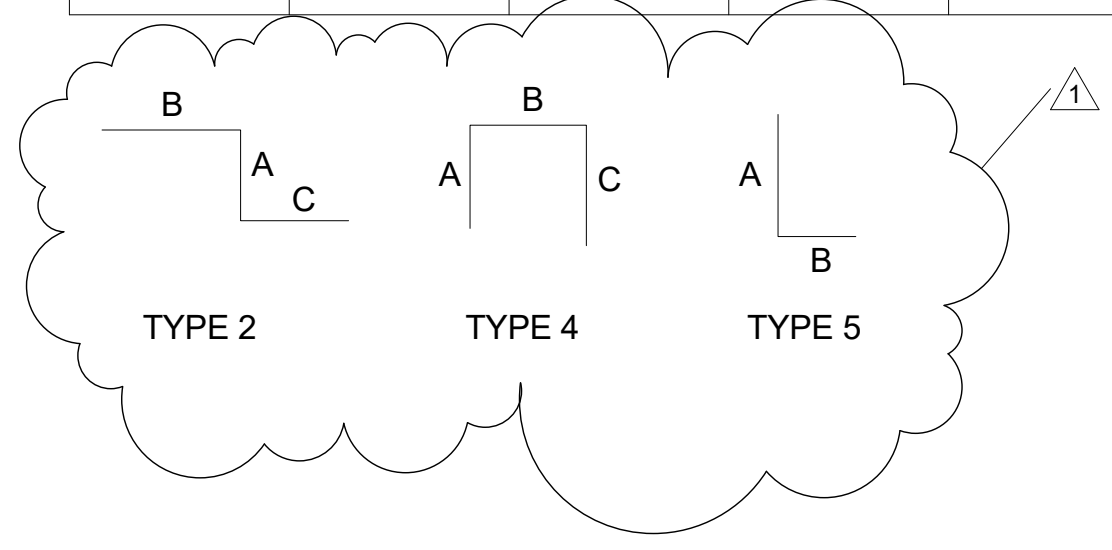


<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH TRADE STREET SLAB SECTION		SHEET NO. S-711		
					REVISIONS	
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS 98
1			3			
2			4			

HNTB HNTB NORTH CAROLINA, P.C.
 NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609
 DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 86

0012DEL_P28
1001ADD_P28

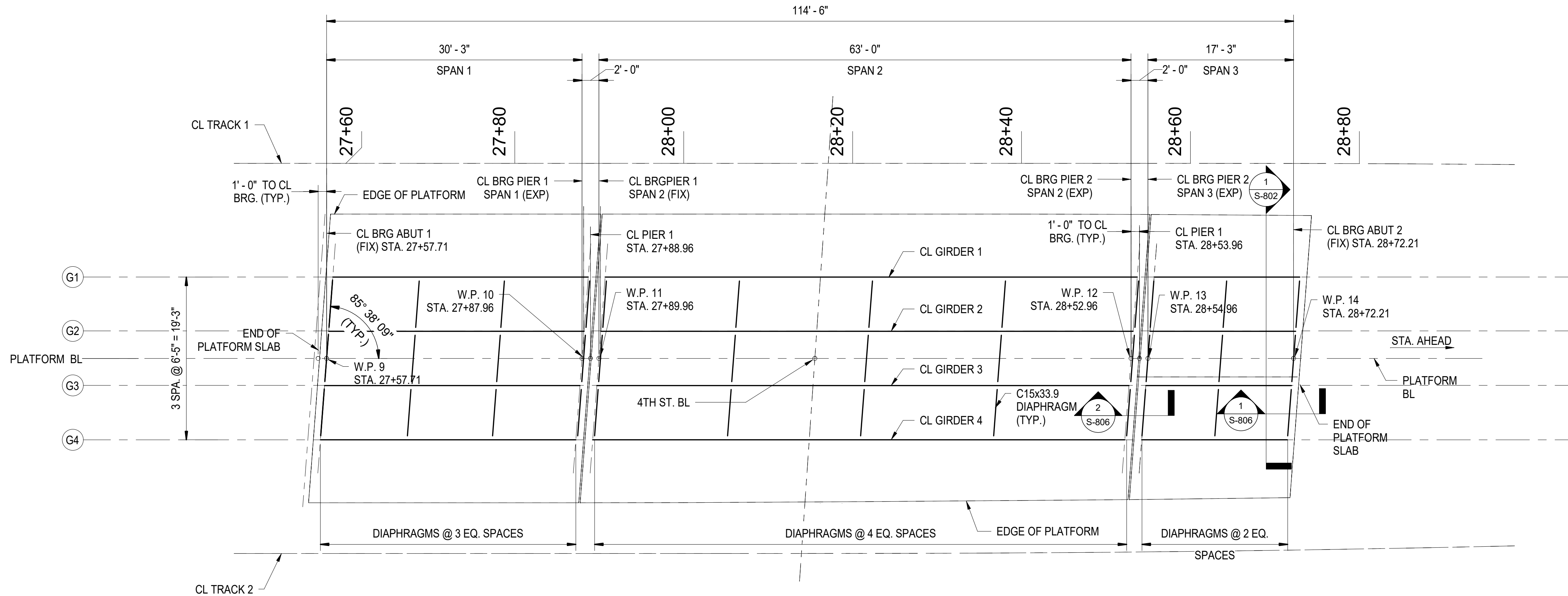
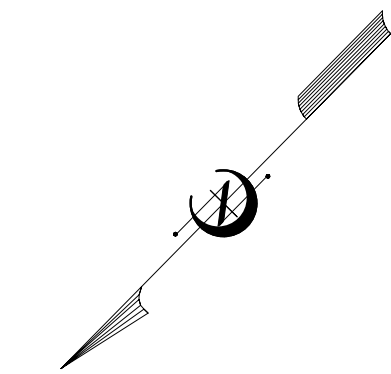
TRADE STREET PLATFORM DECK REINFORCEMENT SCHEDULE												
MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
ED501	144	5	STR	32' - 1"	4821							SPAN 1 & 4
ED502	72	5	STR	33' - 4"	2505							SPAN 2 STAGGER LAPS
ED503	72	5	STR	17' - 1"	1283							SPAN 2 STAGGER LAPS
ED504	72	5	STR	37' - 7"	2824							SPAN 3 STAGGER LAPS
ED505	72	5	STR	18' - 10"	1415							SPAN 3 STAGGER LAPS
ED506	335	5	4	18' - 8 1/2"	6539	0' - 7"	16' - 5 1/2"	1' - 8"				
ED507	170	5	STR	20' - 0"	3548							
ED508	335	5	5	9' - 7 1/2"	3364	7' - 11 1/2"	1' - 8"					
ED509	335	5	5	13' - 6 1/2"	4733	12' - 11 1/2"	0' - 7"					
ED510	170	5	STR	20' - 0"	3548							
ED511	170	5	2	7' - 5"	1324	1' - 7"	0' - 8"	5' - 2"				RIGHT
ED512	170	5	2	7' - 5"	1324	1' - 7"	0' - 8"	5' - 2"				LEFT
ED513	10	5	STR	32' - 1"	335							SPAN 1 & 4
ED514	5	5	STR	33' - 4"	174							SPAN 2 STAGGER LAPS
ED515	5	5	STR	17' - 1"	89							SPAN 2 STAGGER LAPS
ED516	5	5	STR	37' - 7"	196							SPAN 3 STAGGER LAPS
ED517	5	5	STR	18' - 10"	98							SPAN 3 STAGGER LAPS



NOTES:
1. (1) INDICATES REINFORCING BAR BEND TYPE.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH TRADE STREET SLAB REINFORCEMENT SCHEDULE		REVISIONS			SHEET NO.
				NO.	BY	DATE	NO.
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1 4TH STREET STEEL FRAMING PLAN
S-801 SCALE: 1/8" = 1'-0"

NOTES:
1. LENGTHS TAKEN ALONG CL GIRDER.
2. GIRDER ANGLE MEASURED FROM PLATFORM BL TO CL BRG.

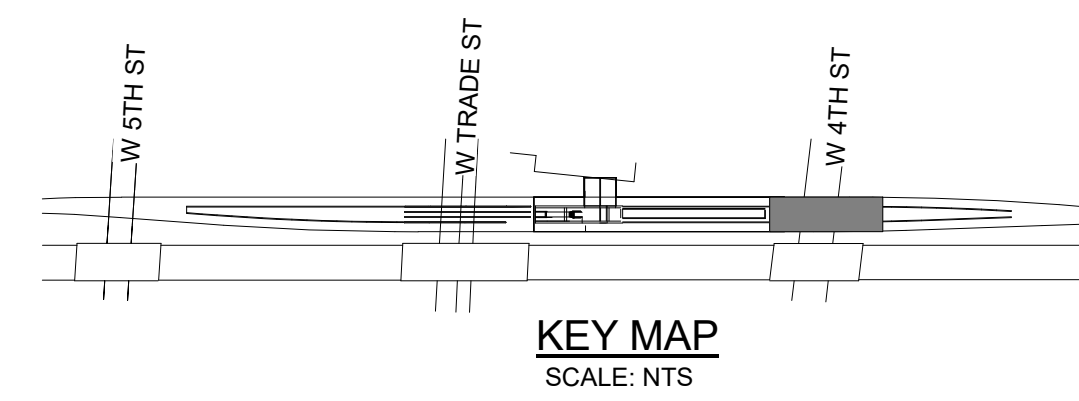
GIRDER SCHEDULE

SPAN	GIRDER NO.	LENGTH C-C BRG.	SECTION
1	1	30'-3"	W30x90
1	2	30'-3"	W30x90
1	3	30'-3"	W30x90
1	4	30'-3"	W30x90
2	1	63'-0"	W30x173
2	2	63'-0"	W30x173
2	3	63'-0"	W30x173
2	4	63'-0"	W30x173
3	1	17'-3"	W30x90
3	2	17'-3"	W30x90
3	3	17'-3"	W30x90
3	4	17'-3"	W30x90

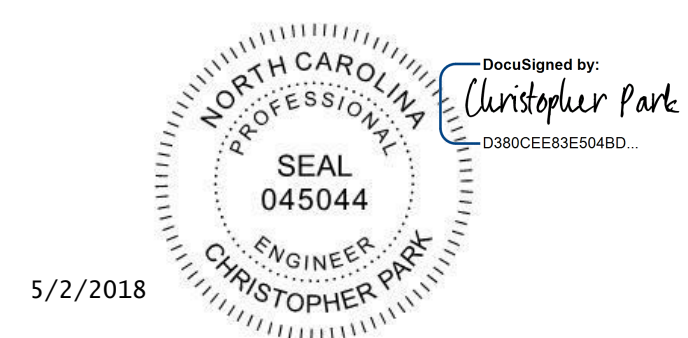
WORK POINTS

	WORKING POINT	COORDINATES		PLATFORM BL STATION
		NORTH	EAST	
CL BRG. ABUTMENT 1	W.P. #9	544073.4604	1447828.9540	27+57.71
CL BRG. PIER 1	W.P. #10	544051.7887	1447807.8495	27+87.96
CL BRG. PIER 1	W.P. #11	544050.3559	1447806.4542	27+89.96
CL BRG. PIER 2	W.P. #12	544005.2215	1447762.5010	28+52.96
CL BRG. PIER 2	W.P. #13	544003.7886	1447761.1056	28+54.96
CL BRG. ABUTMENT 2	W.P. #14	543991.4304	1447749.0708	28+72.21

3 4TH STREET WORK POINTS
S-801 SCALE: 12" = 1'-0"



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MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

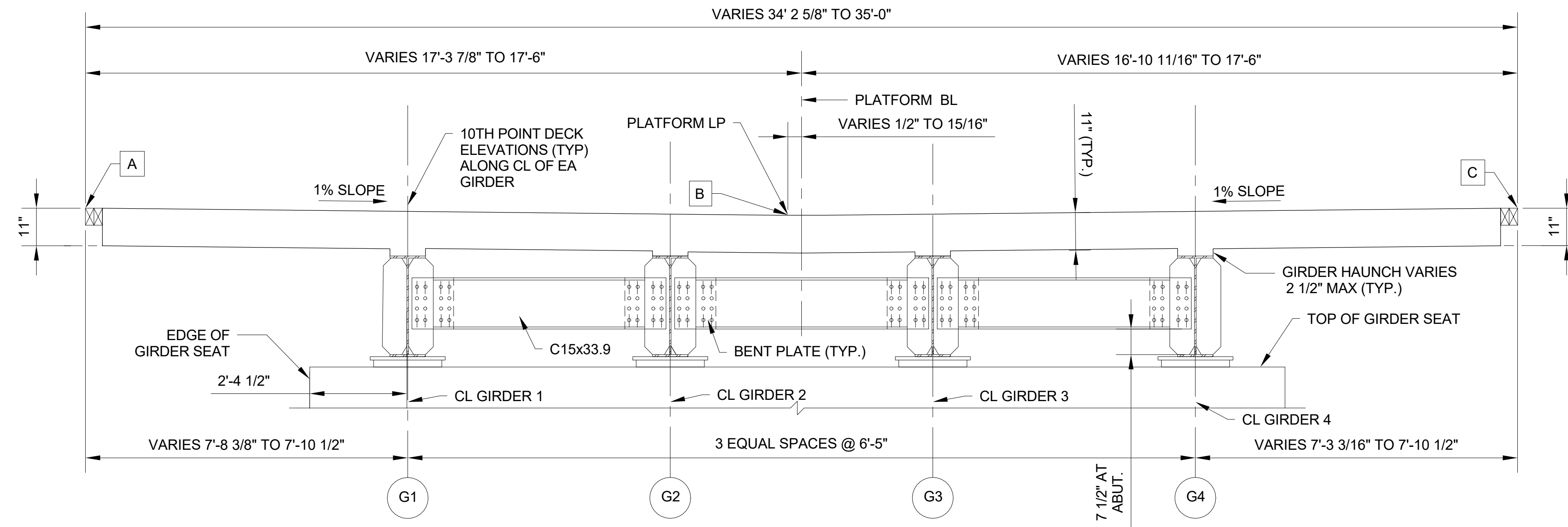


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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
4TH STREET STEEL FRAMING PLAN

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DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
CHECKED BY: C. PARK DATE: 3/27/2018
DWG. NO. 88

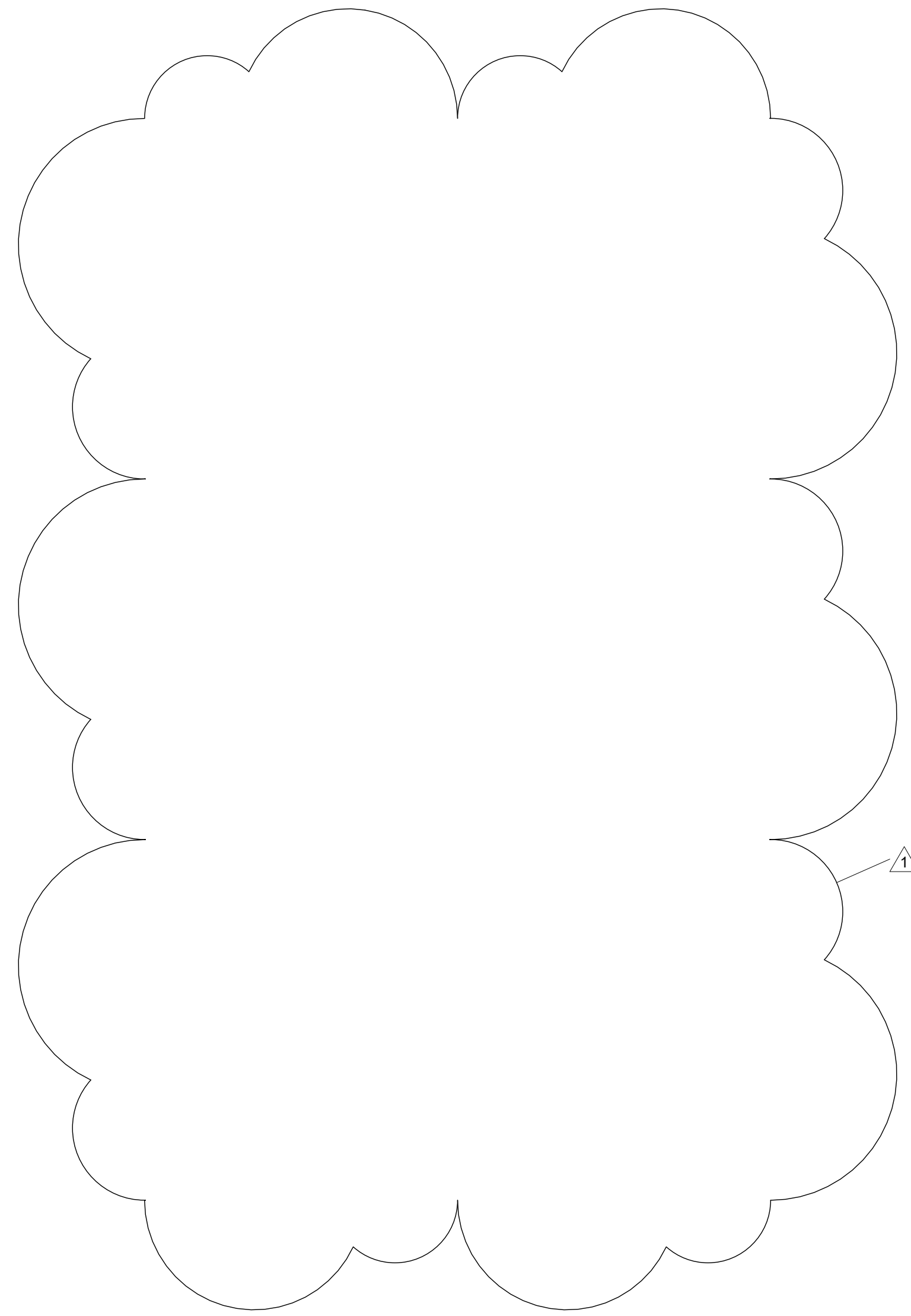
REVISIONS						SHEET NO. S-801
NO.	BY	DATE	NO.	BY	DATE	
1	CP	5/2/18	3			TOTAL SHEETS 98
2			4			



1 4TH STREET SECTION
S-802 SCALE: 1/2" = 1'-0"

NOTES:
1. A, B, C DENOTE TOP OF SLAB ELEVATION.
2. SECTION VIEW IS SHOWN LOOKING STATIONS AHEAD.

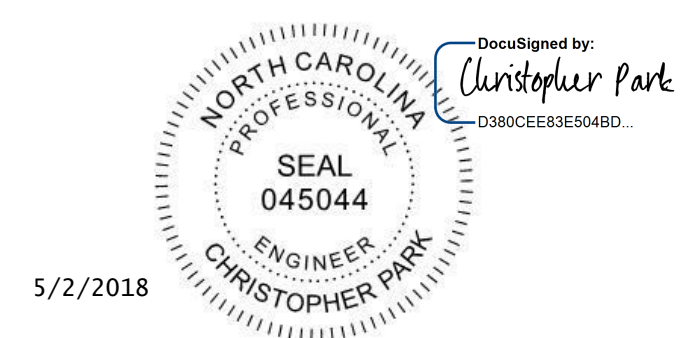
TABLE OF GIRDER SEAT ELEVATIONS					
LOCATION		GIRDER NUMBER			
		1	2	3	4
SPAN 1	CL BRG. ABUT. 1	744.068	744.068	744.068	744.068
	CL BRG. PIER 1	744.043	744.043	744.043	744.043
SPAN 2	CL BRG. PIER 1	743.967	743.967	743.967	743.967
	CL BRG. PIER 2	743.916	743.916	743.916	743.916
SPAN 3	CL BRG. PIER 2	743.990	743.990	743.990	743.990
	CL BRG. ABUT. 2	744.043	744.043	744.043	744.043



TOP OF DECK ELEVATIONS			
STATION	PT A	PT B	PT C
27+56.38	--	--	747.932
27+57.71	--	747.753	--
27+59.05	747.929	--	--
27+60.00	747.929	747.754	747.929
27+70.00	747.921	747.746	747.921
27+80.00	747.913	747.738	747.913
27+86.63	--	--	747.907
27+87.96	--	747.733	--
27+88.71	747.906	--	--
27+89.30	--	--	747.906
27+89.96	--	747.731	--
27+90.00	747.905	747.730	747.905
27+91.30	747.904	--	--
28+00.00	747.897	747.722	747.898
28+10.00	747.889	747.714	747.890
28+20.00	747.881	747.706	747.882
28+30.00	747.873	747.699	747.874
28+40.00	747.865	747.691	747.866
28+50.00	747.857	747.683	747.858
28+51.66	--	--	747.856
28+52.96	--	747.679	--
28+53.66	747.853	--	--
28+54.30	--	--	747.855
28+54.96	--	747.678	--
28+56.30	747.852	--	--
28+60.00	747.849	747.676	747.850
28+70.00	747.841	747.669	747.842
28+70.92	--	--	747.841
28+72.21	--	747.666	--
28+73.54	747.838	--	--

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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

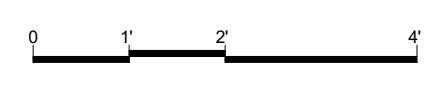


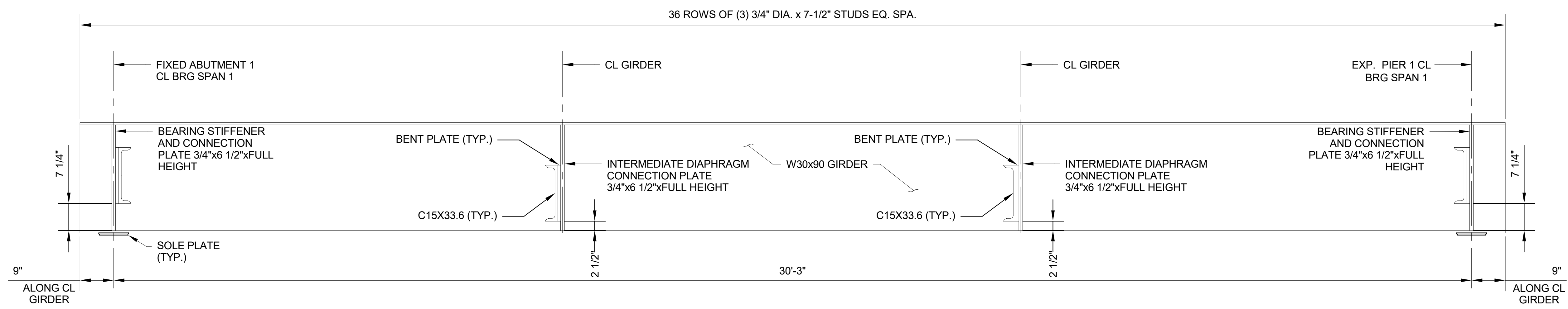
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
4TH STREET TYPICAL SECTION
ONLY AT ABUTMENTS &
PLATFORM SLAB ELEVATIONS

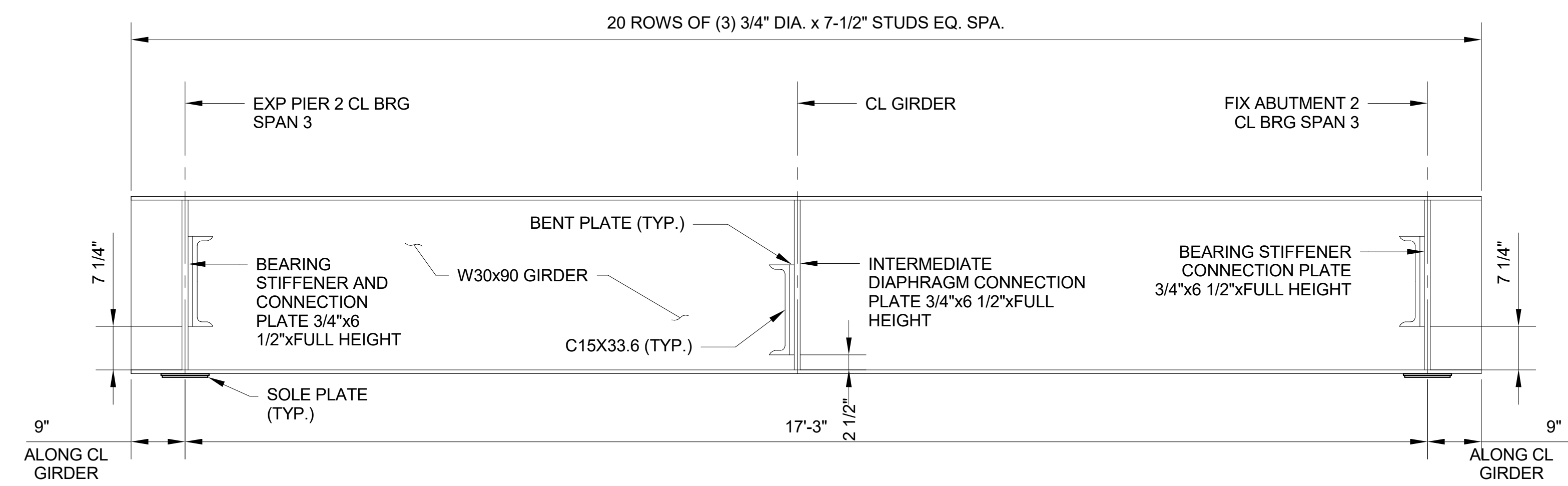
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CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 89

REVISIONS						SHEET NO. S-802
NO.	BY	DATE	NO.	BY	DATE	
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2			4			

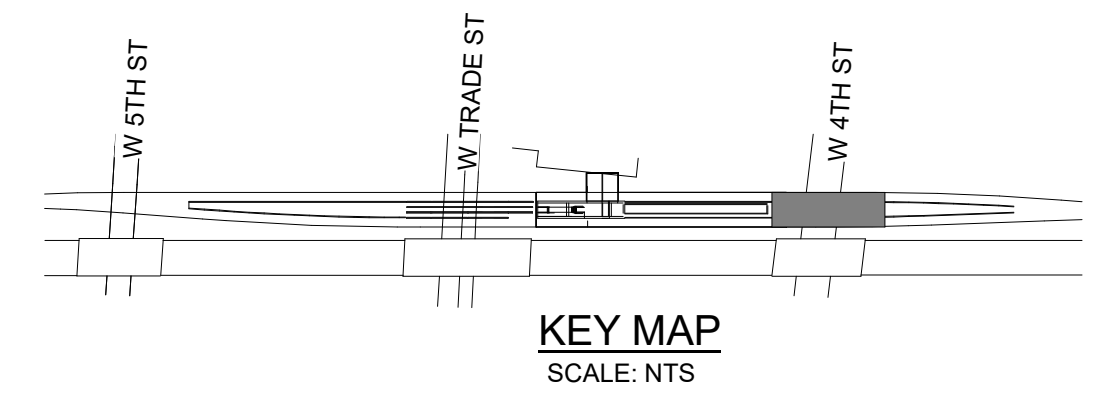




1 4TH STREET GIRDER ELEVATION SPAN 1
S-803 SCALE: 3/4\"/>



2 4TH STREET GIRDER ELEVATION SPAN 3
S-803 SCALE: 3/4\"/>



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MECKLENBURG COUNTY
PROJECT NO. 19+68.93 -S1-

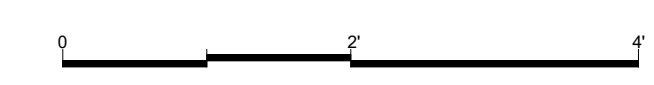


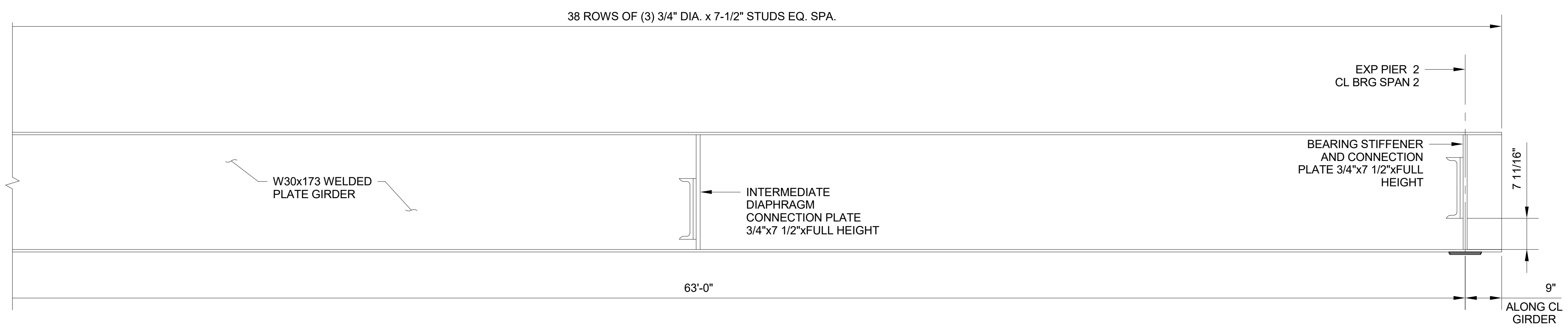
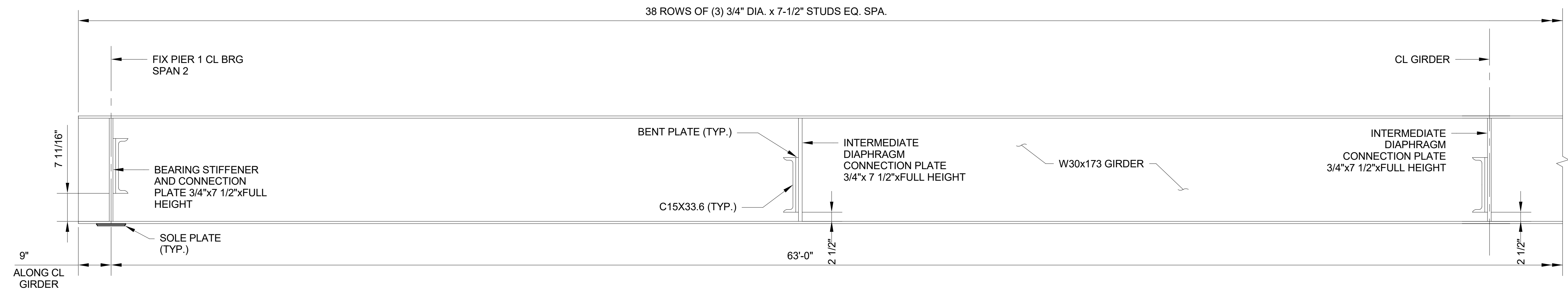
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DEPARTMENT OF TRANSPORTATION
RALEIGH

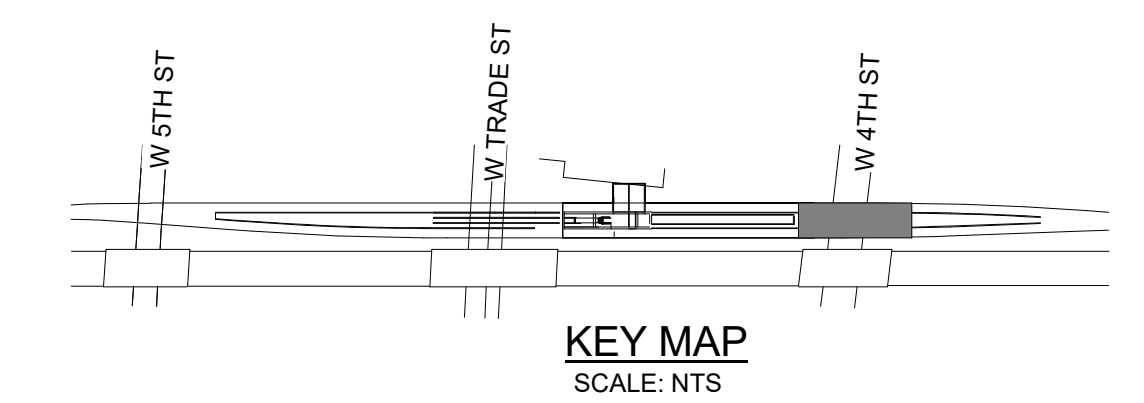
4TH STREET GIRDER
ELEVATION - SPAN 1 & 3

HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		DWG. NO. 90		SHEET NO. S-803	
DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK		DATE: 3/27/2018 DATE: 3/27/2018		TOTAL SHEETS: 98	
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

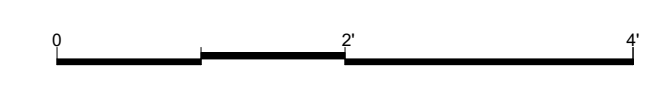




1 4TH STREET GIRDER ELEVATION SPAN 2
 S-804 SCALE: 3/4" = 1'-0"



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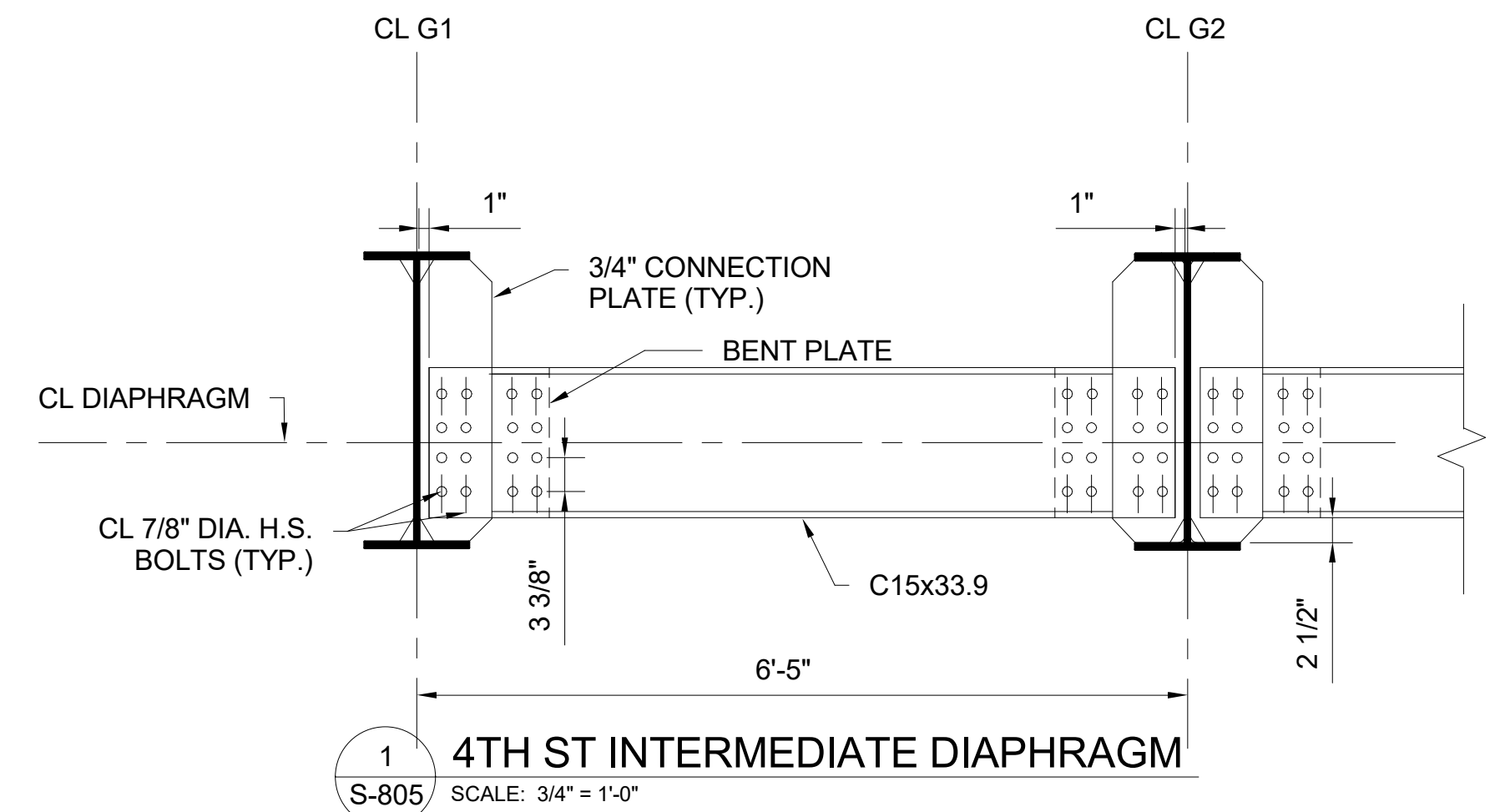
4TH STREET GIRDER
 ELEVATION - SPAN 2

REVISIONS						SHEET NO. S-804
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

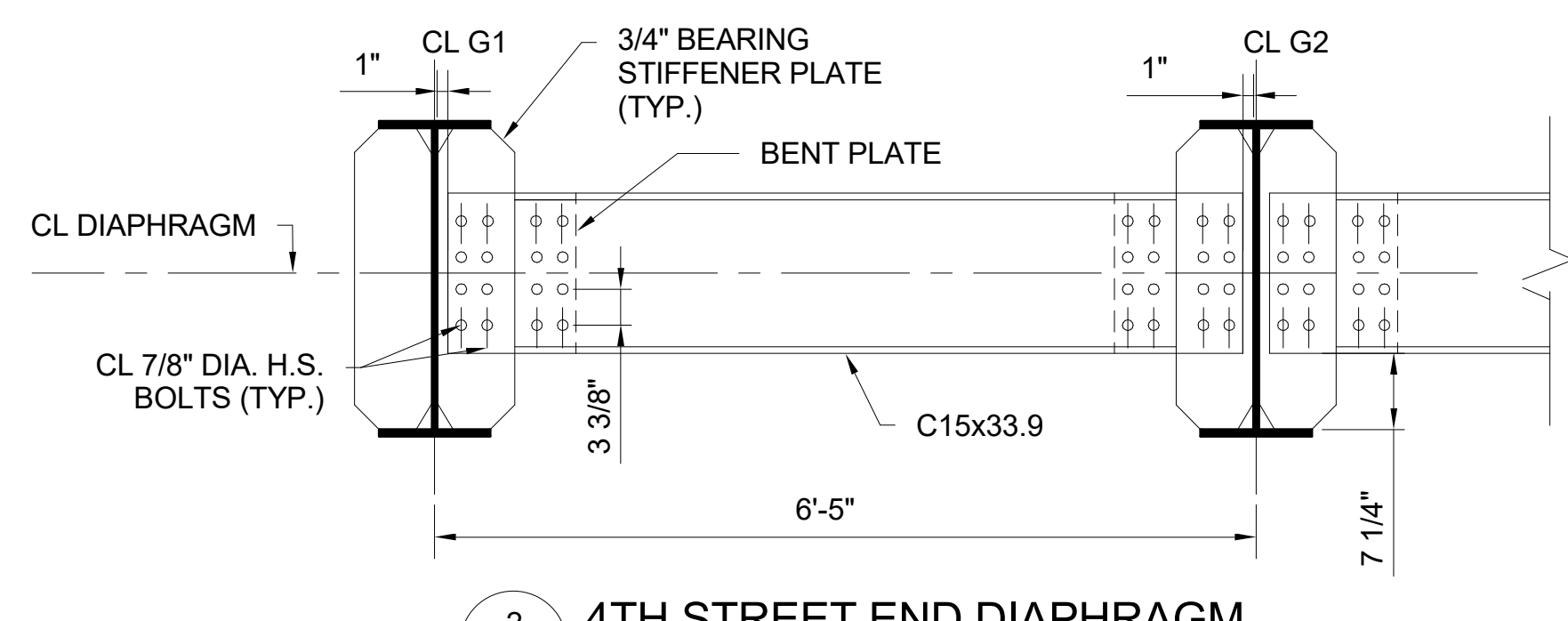
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DWG. NO. 91

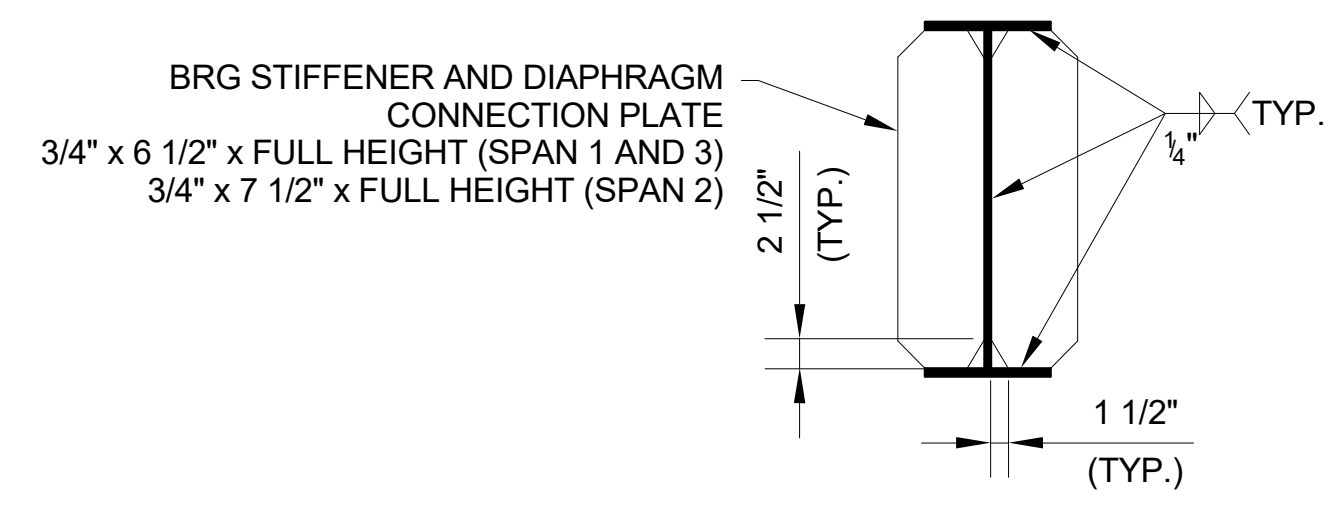
DRAWN BY: D. TRACZYKIEWICZ DATE: 3/27/2018
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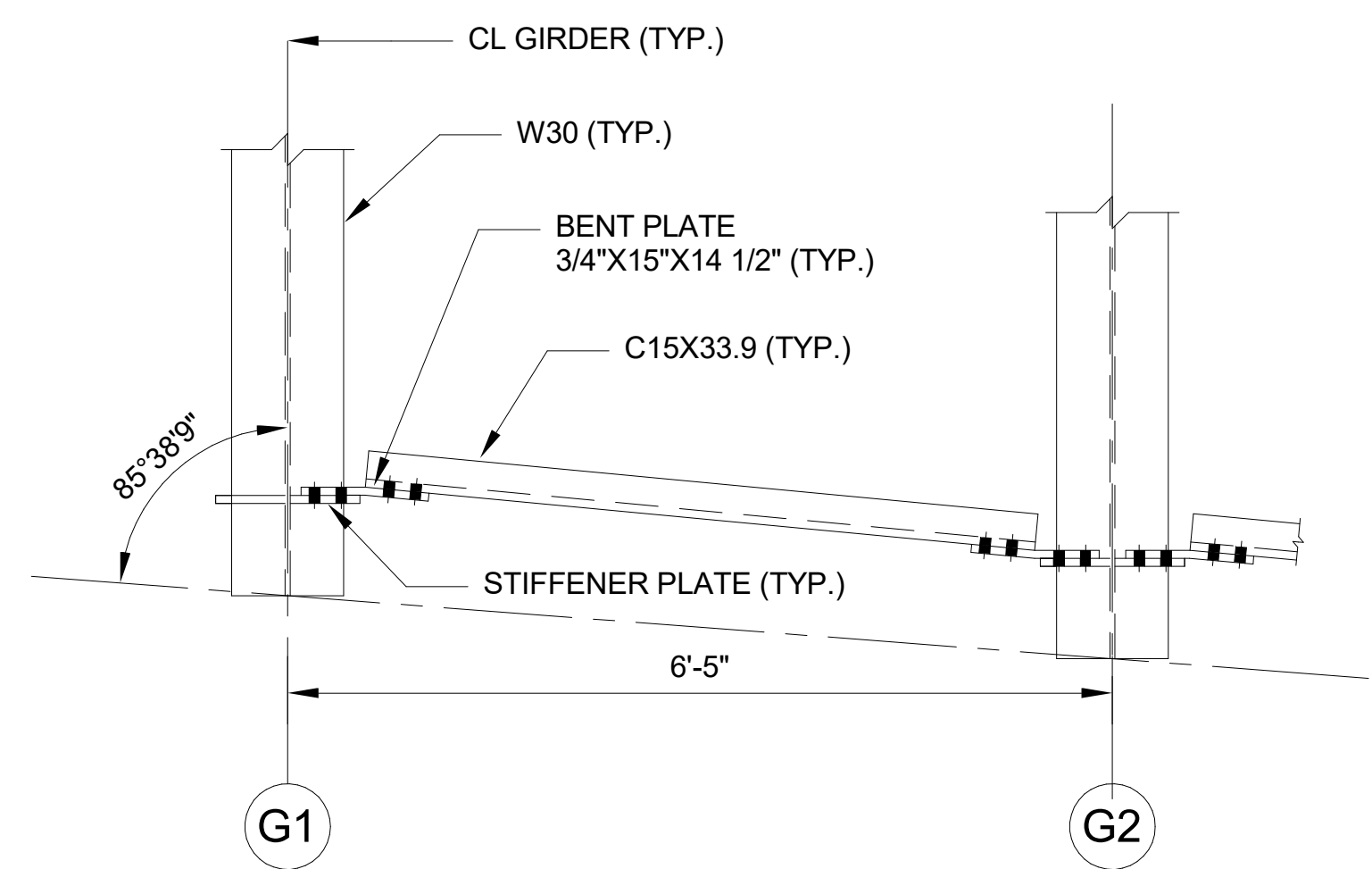
1 4TH ST INTERMEDIATE DIAPHRAGM
S-805 SCALE: 3/4" = 1'-0"



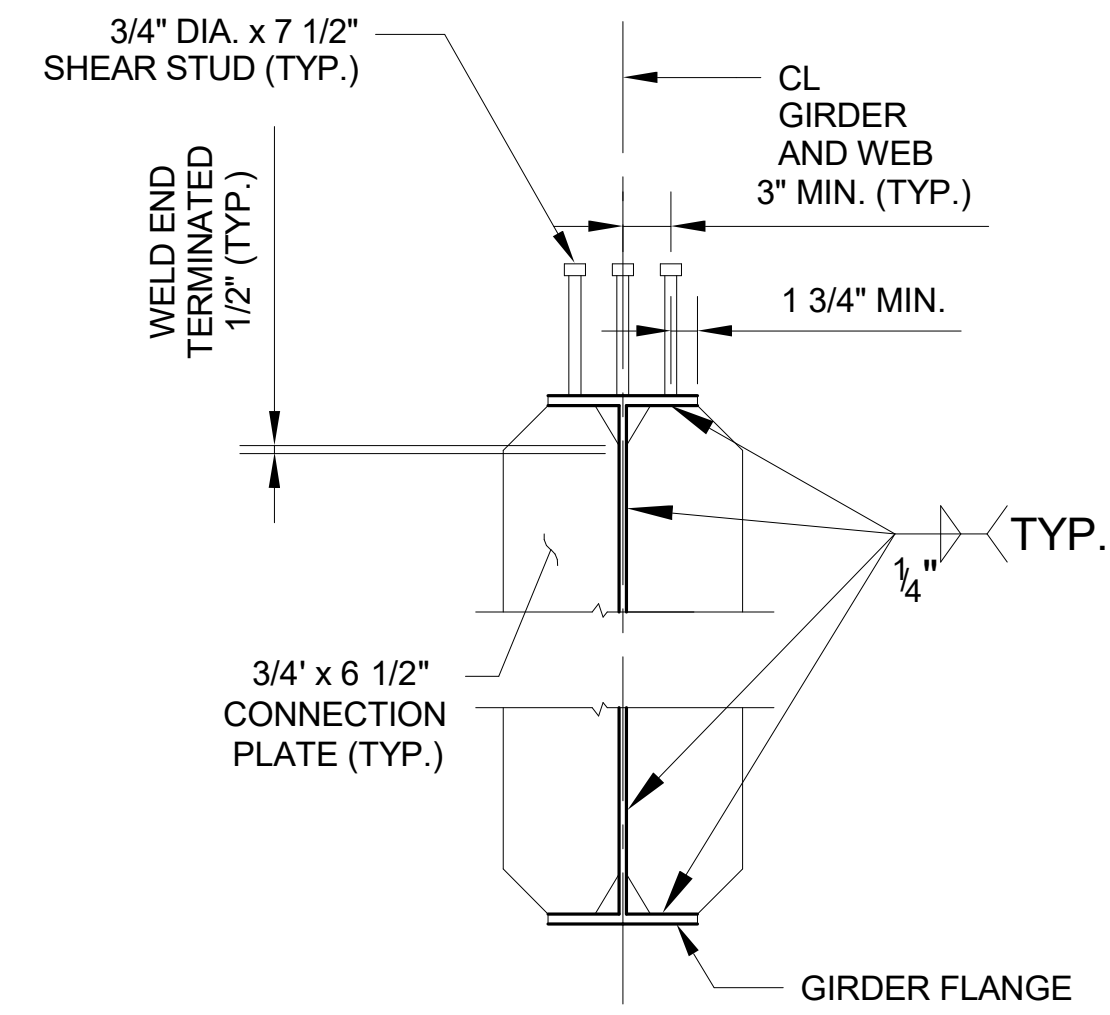
2 4TH STREET END DIAPHRAGM
S-805 SCALE: 3/4" = 1'-0"



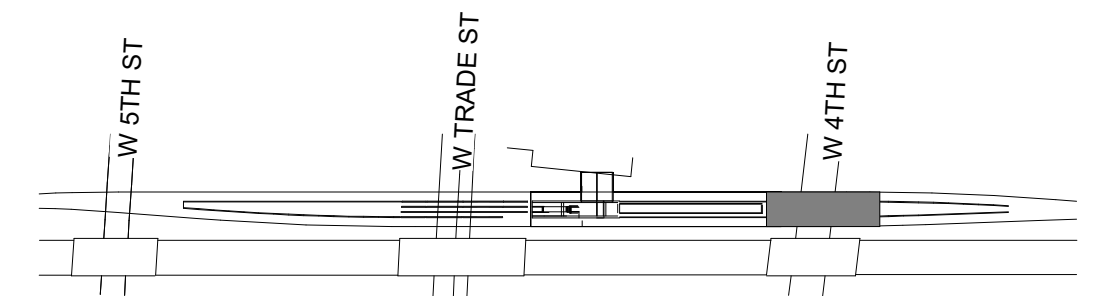
3 4TH STREET BEARING STIFFENER AND DIAPHRAGM CONNECTION PLATE
S-805 SCALE: 3/4" = 1'-0"



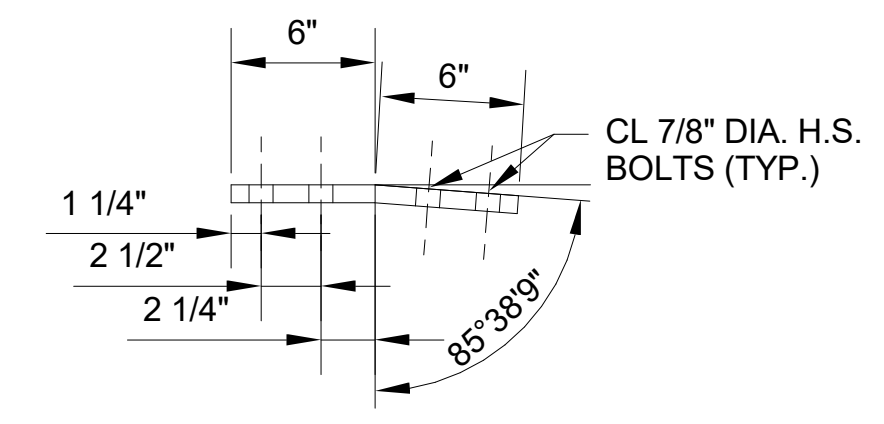
4 4TH STREET DIAPHRAGM PLAN VIEW
S-805 SCALE: 3/4" = 1'-0"



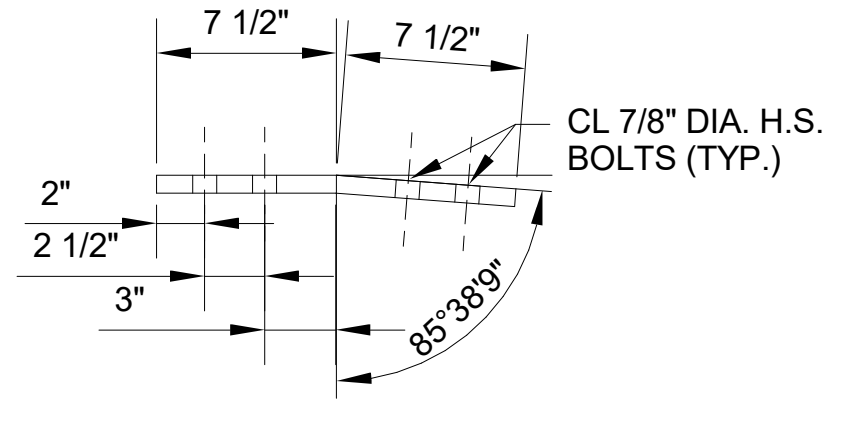
5 4TH STREET SHEAR CONNECTOR
S-805 SCALE: 1" = 1'-0"



KEY MAP
SCALE: NTS



6 4TH STREET DIAPHRAGM BENT PLATE SPAN 1 AND 3 (W30x90)
S-805 SCALE: 1 1/2" = 1'-0"



7 4TH STREET DIAPHRAGM BENT PLATE SPAN 2 (W30x173)
S-805 SCALE: 1 1/2" = 1'-0"

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PROJECT NO. 19+68.93 -S1-

SHEET 1 OF 2

4/5/2018

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DEPARTMENT OF TRANSPORTATION
RALEIGH

4TH STREET TYPICAL STEEL DETAILS

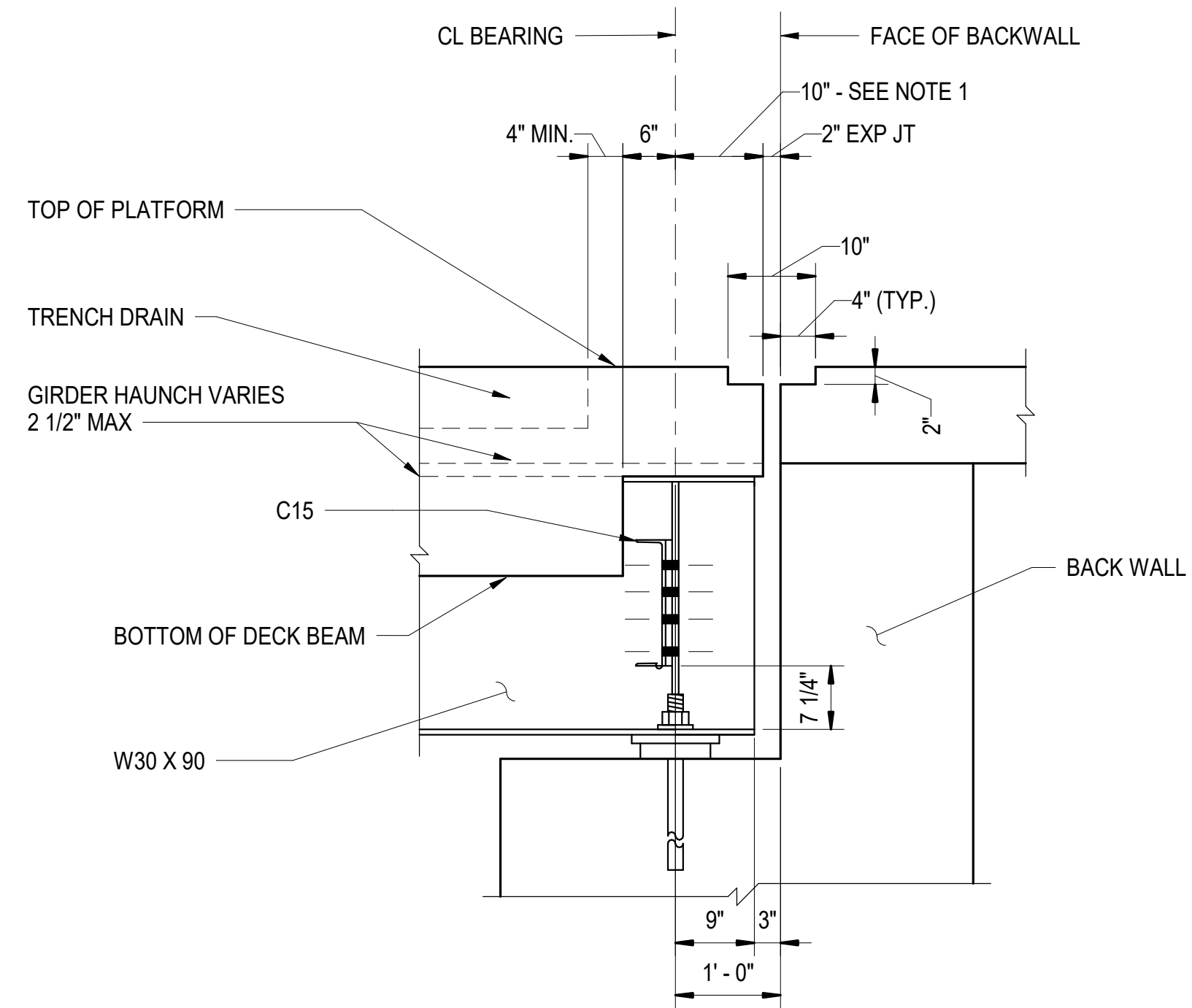
REVISIONS						SHEET NO. S-805
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			

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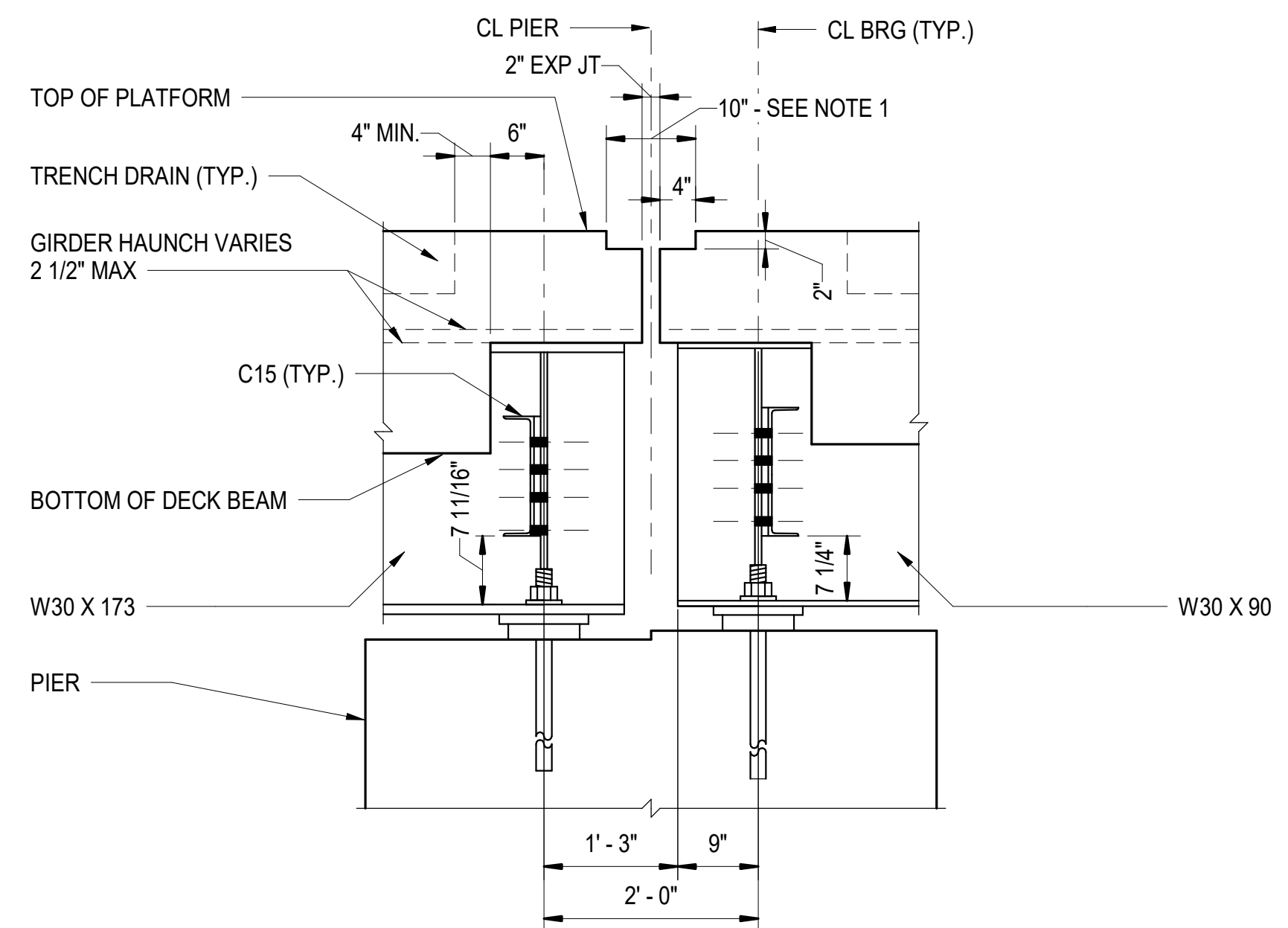
DWG. NO. 92

0 2 4



4TH STREET GIRDER SEAT SECTION AT ABUTMENT

1
S-806
SCALE: 3/4" = 1'-0"



4TH STREET GIRDER SEAT SECTION AT PIER

2
S-806
SCALE: 3/4" = 1'-0"

NOTES:

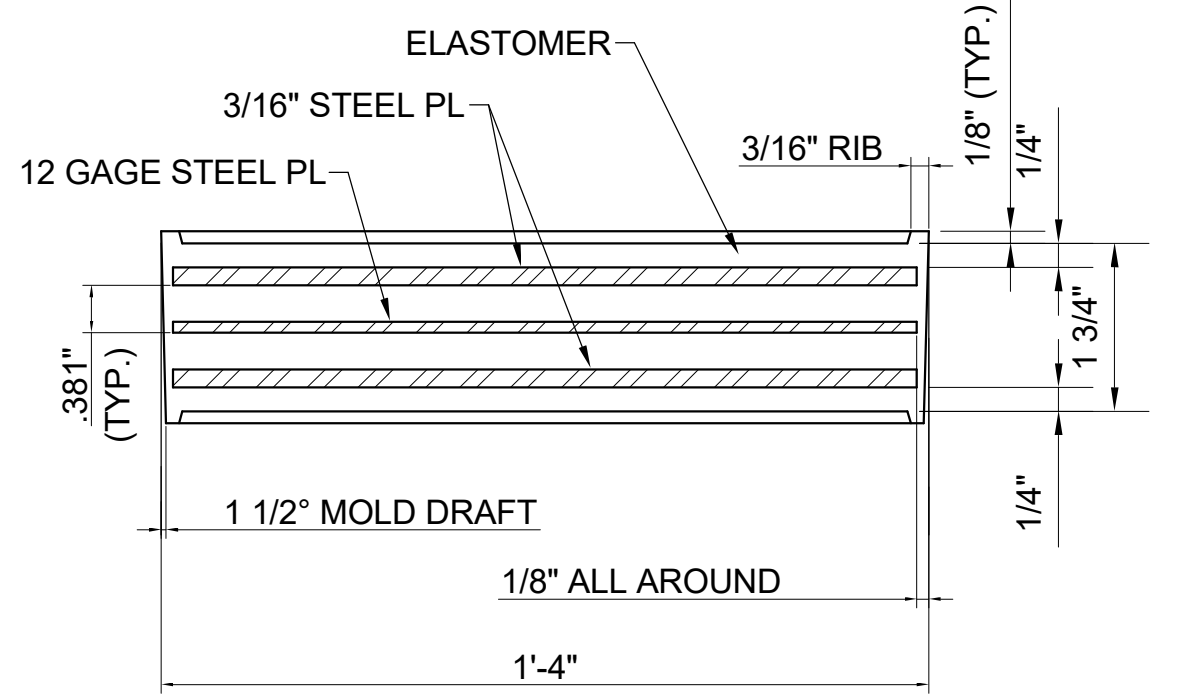
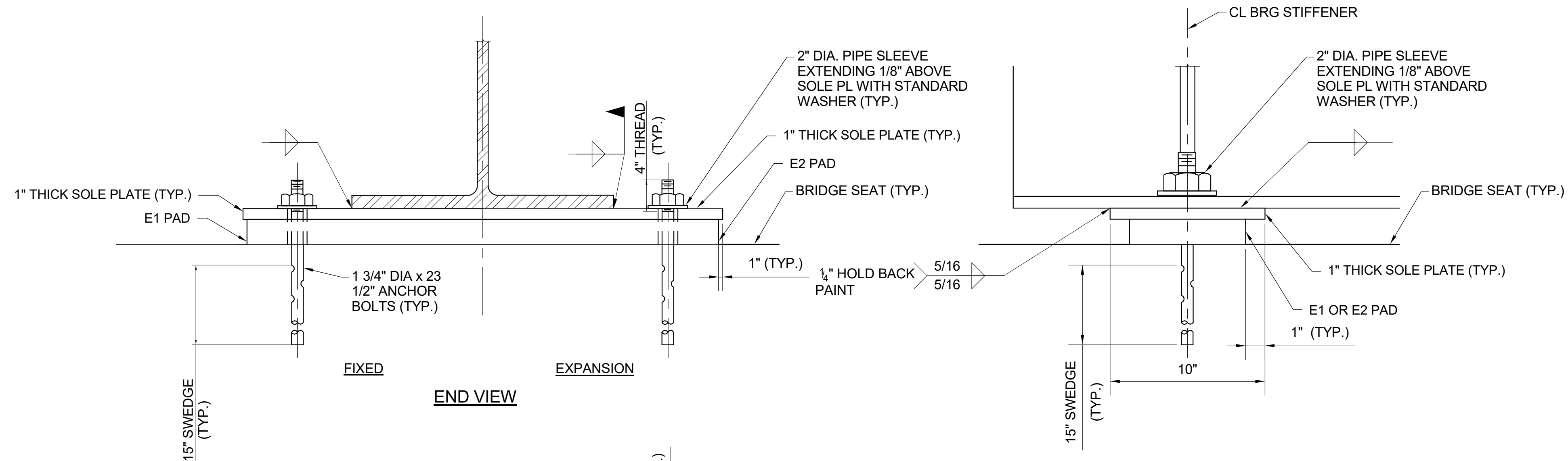
- 1. FOR EXPANSION JOINT AND COVER DETAILS REFER TO ARCHITECTURE DRAWINGS.

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MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

SHEET 2 OF 2

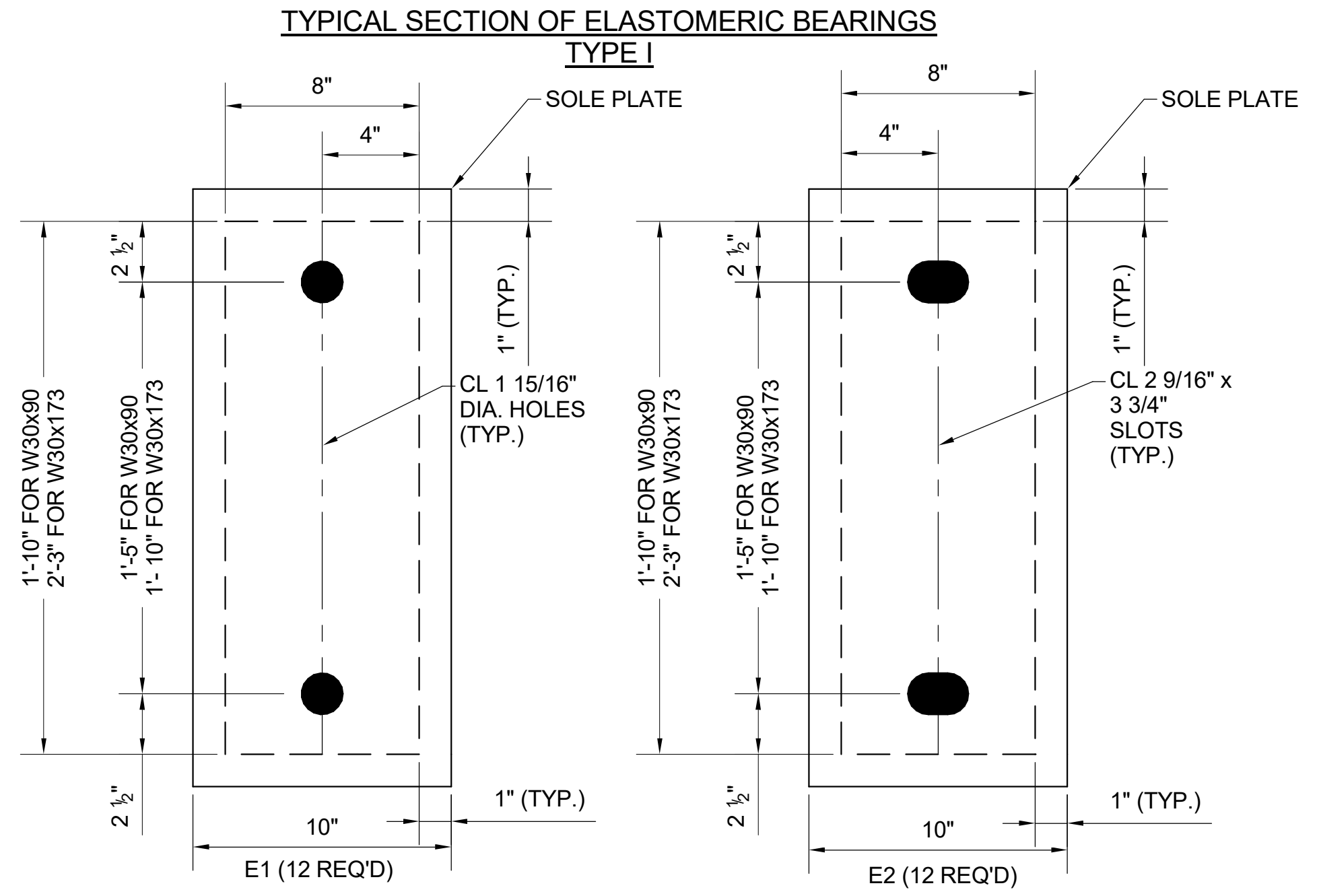
4/5/2018 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH 4TH STREET TYPICAL STEEL DETAILS																			
HNTB HNTB NORTH CAROLINA, P.C. <small>NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</small>		SHEET NO. S-806																			
DRAWN BY: Author CHECKED BY: Checker		REVISIONS																			
DATE: 03/23/18 DATE: 03/23/18		<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>		NO.	BY	DATE	NO.	BY	DATE	1			3			2			4		
NO.	BY	DATE	NO.	BY	DATE																
1			3																		
2			4																		
DWG. NO. 93		TOTAL SHEETS 98																			



BEARING PAD TABLE

SPAN	GIRDER	BEARING TYPE	
		NORTH	SOUTH
1	1	E1	E2
1	2	E1	E2
1	3	E1	E2
1	4	E1	E2
2	1	E1	E2
2	2	E1	E2
2	3	E1	E2
2	4	E1	E2
3	1	E2	E1
3	2	E2	E1
3	3	E2	E1
3	4	E2	E1

E1 FOR FIXED END
E2 FOR EXPANSION END



PLAN VIEW OF ELASTOMERIC BEARINGS TYPE I

4TH STREET ELASTOMERIC BEARINGS
DETAIL
SCALE: 3" = 1'-0"

NOTES:

- AT ALL FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.
- THE 2" DIA. PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40 PVC PLASTIC PIPE. THE PVC PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785.
- THE PAYMENT OF THE SLEEVES SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.
- FOR PAINTED STRUCTURAL STEEL (EXCLUDING AASHTO M270 GRADE 50W), SOLE PLATES, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FOR AASHTO M270 GRADE 50W STRUCTURAL STEEL, SOLE PLATE SHALL NOT BE GALVANIZED. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.
- WHEN FIELD WELDING THE SOLE PLATE TO THE GIRDER FLANGE, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300° F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.
- ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.
- THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI. IN ACCORDANCE WITH AASHTO M251.
- FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FOLLOWING PROCEDURE, WHICH MAY BE REQUIRED BY THE ENGINEER, TO RESET ELASTOMERIC BEARINGS DUE TO GIRDER TRANSLATION AND END ROTATION.
 - ONCE THE DECK HAS CURED, THE GIRDERS SHALL BE JACKED AND THE ELASTOMERIC BEARING SLOTS CENTERED AS NEARLY AS PRACTICAL ABOUT THE BEARING STIFFENER. THIS OPERATION SHALL BE PERFORMED AT APPROXIMATELY 60° F.
- THE CONTRACTOR MAY PROPOSE ALTERNATE METHODS, PROVIDED DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



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RALEIGH

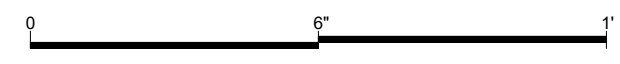
4TH STREET BEARING DETAILS

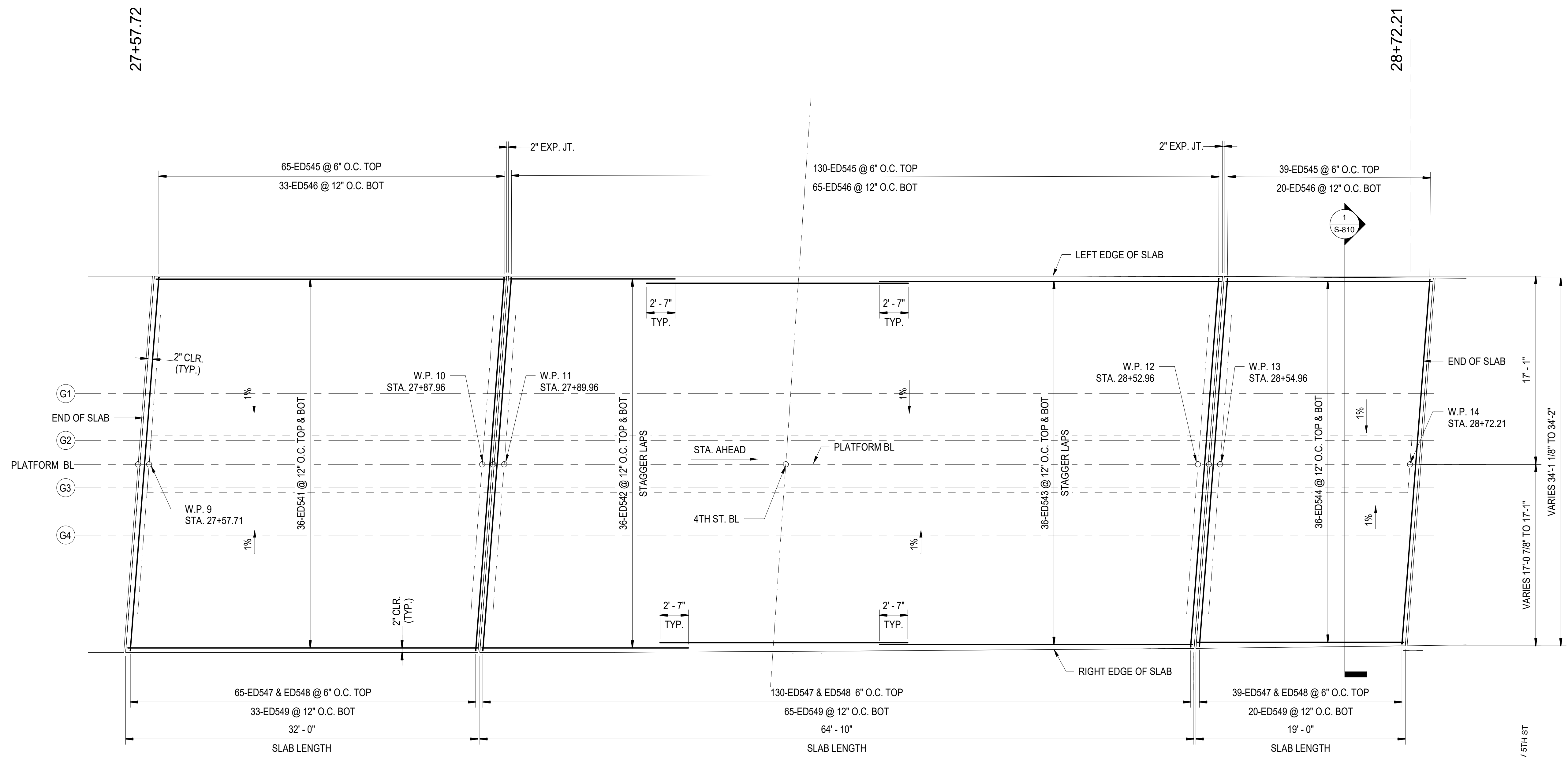
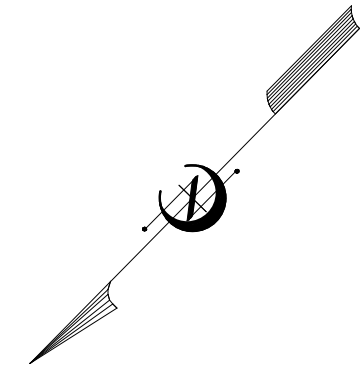
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DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
CHECKED BY C. PARK DATE 3/27/2018

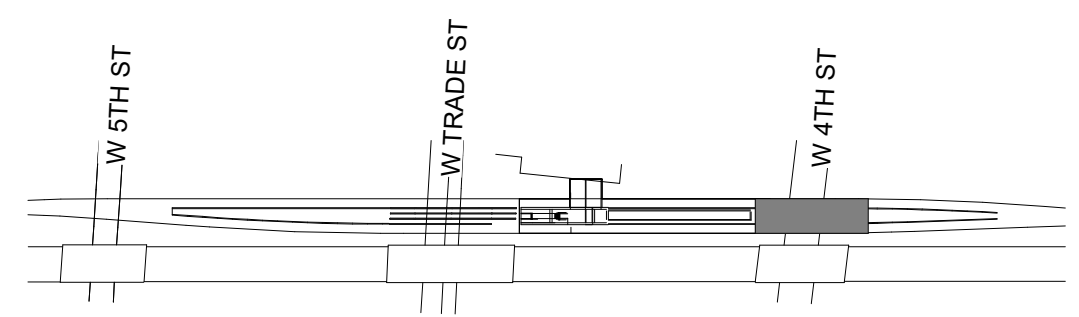
DWG. NO. 94

REVISIONS						SHEET NO. S-807
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			





1 4TH STREET SLAB REINFORCING PLAN
 S-809 SCALE: 3/16" = 1'-0"



KEY MAP
 SCALE: NTS

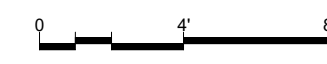
PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

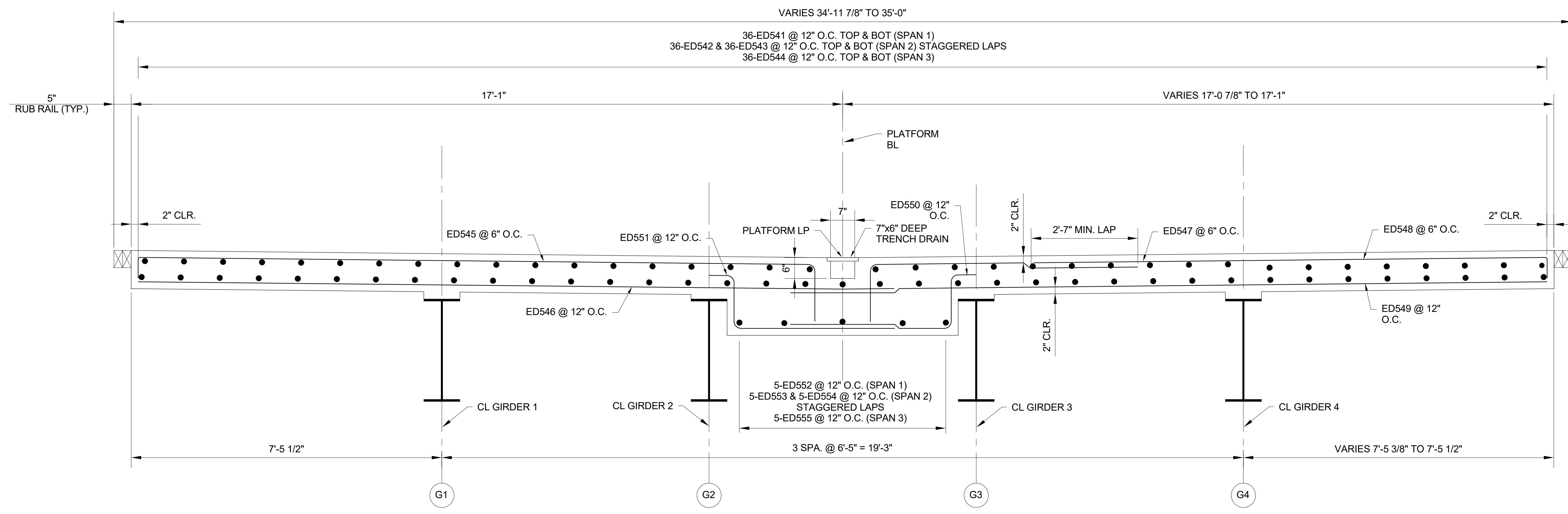
PROJECT NO. 19+68.93 -S1-

NOTES:

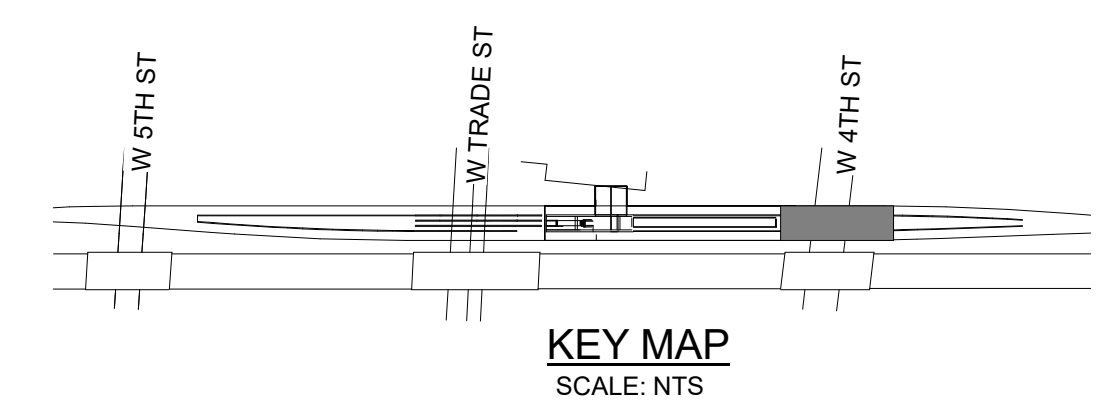
1. PLACE LONGITUDINAL BARS WITH STAGGERED LAPS.
2. ALL DECK REINFORCEMENT SHALL BE EPOXY COATED.
3. % DENOTES DECK SLOPE AND DIRECTION.
4. THE PLATFORM TRENCH DRAIN SHALL BE LOCATED ALONG THE CENTERLINE OF PLATFORM EQUALLY BETWEEN THE EDGES OF SLAB.

<p>4/5/2018</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH 4TH STREET SLAB REINFORCEMENT PLAN		SHEET NO.	
				S-809	
HNTB HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS		TOTAL SHEETS	
DRAWN BY: D. TRACZYKIEWICZ CHECKED BY: C. PARK	DATE: 3/27/2018 DATE: 3/27/2018	NO. 1 BY DATE	NO. 3 BY DATE	NO. 4 BY DATE	98
DWG. NO. 96					





1 4TH STREET SLAB SECTION
 S-810 SCALE: 3/4" = 1'-0"



PROJECT NO. P-5705BB
 MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-

NOTES:
 1. SECTION VIEW IS SHOWN LOOKING STATIONS AHEAD.

4/5/2018



DOCUMENT NOT CONSIDERED
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 SIGNATURES COMPLETED

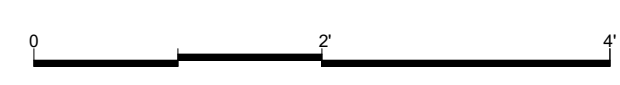
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

4TH STREET SLAB SECTION

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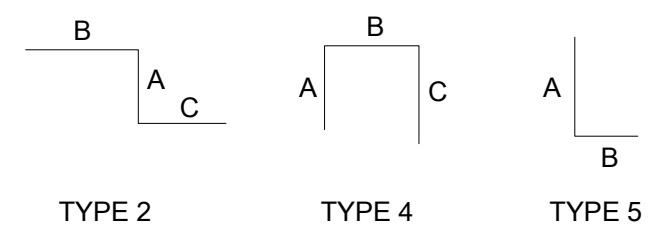
DRAWN BY D. TRACZYKIEWICZ DATE 3/27/2018
 CHECKED BY C. PARK DATE 3/27/2018 DWG. NO. 97

REVISIONS						SHEET NO. S-810
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 98
2			4			



0012DEL_P28
1001ADD_P28

MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT (LBS)	A	B	C	D	E	J	REMARKS
ED541	72	5	STR	31' - 8"	2379							SPAN 1
ED542	72	5	STR	23' - 3 5/6"	1752							SPAN 2 STAGGER LAPS
ED543	72	5	STR	44' - 3 3/4"	3329							SPAN 2 STAGGER LAPS
ED544	72	5	STR	18' - 8"	1402							SPAN 3
ED545	234	5	4	18' - 6 1/2"	4527	0' - 7"	16' - 3 1/2"	1' - 8"				
ED546	118	5	STR	20' - 0"	2462							
ED547	234	5	5	8' - 5 1/2"	2065	6' - 9 1/2"	1' - 8"					
ED548	234	5	5	14' - 4 1/2"	3510	13' - 9 1/2"	0' - 7"					
ED549	118	5	STR	20' - 0"	2462							
ED550	118	5	2	7' - 5"	913	1' - 7"	0' - 8"	5' - 2"				RIGHT
ED551	118	5	2	7' - 5"	913	1' - 7"	0' - 8"	5' - 2"				LEFT
ED552	5	5	STR	34' - 8"	165							SPAN 1
ED553	5	5	STR	21' - 4 3/4"	112							SPAN 2 STAGGER LAPS
ED554	5	5	STR	43' - 5 1/4"	227							SPAN 2 STAGGER LAPS
ED555	5	5	STR	18' - 8"	97							SPAN 3



1 4TH STREET REBAR SCHEDULE
S-811

NOTES:
① INDICATES REINFORCING BAR BEND TYPE.

PROJECT NO. P-5705BB
MECKLENBURG COUNTY

PROJECT NO. 19+68.93 -S1-



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DEPARTMENT OF TRANSPORTATION
RALEIGH

4TH STREET SLAB
REINFORCEMENT SCHEDULE

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DRAWN BY: D. TRACZYKIEWICZ	DATE: 3/27/2018	NO.	BY	DATE	TOTAL SHEETS
CHECKED BY: C. PARK	DATE: 3/27/2018	1	CP	5/2/18	98
		2		4	