

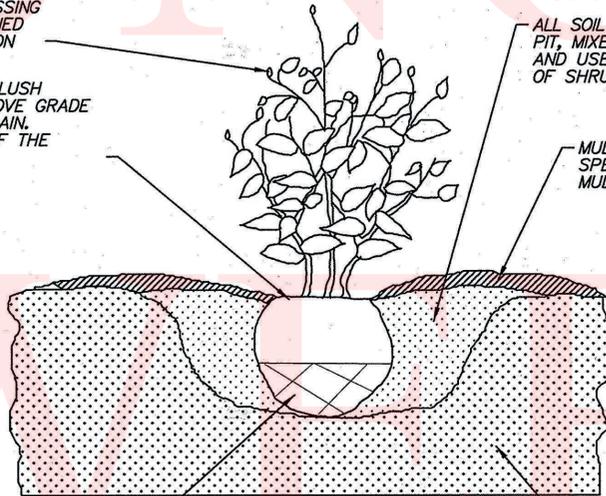
LANDSCAPE PLANTING SUMMARY SCHEDULE						
ID	QTY	BOTANICAL NAME	COMMON NAME	SIZE	METHOD	COMMENTS
SE	50	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL.	CONT.	
SJ	17	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	CONT.	
SN	122	SALVIA NEMOROSA 'SNOW HILL'	SNOW HILL GARDEN SAGE	4" POT	CONT.	
SH	124	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL.	CONT.	
IC	230	IRIS 'CAT'S EYE'	DWARF BEARDED IRIS	DN1	BULB	SPACED 8" O.C.
NI	620	NARCISSUS 'ICE FOLLIES'	DAFFODIL	DN1	BULB	SPACED 8" O.C.

**MULCH REQUIREMENTS (FOR INFORMATION PURPOSES ONLY):**

3" THICK SHREDDED HARDWOOD MULCH FOR PERENNIAL BED: 143 SY ITEM 737002

ALL DEAD, BROKEN, & CROSSING BRANCHES SHALL BE PRUNED OFF FOLLOWING INSTALLATION

ROOTBALL SHALL BE SET FLUSH TO GRADE OR 1" TO 2" ABOVE GRADE IF SOILS ARE SLOW TO DRAIN. DO NOT COVER THE TOP OF THE ROOTBALL WITH SOIL.



ALL SOIL SHALL BE EXCAVATED FROM THE PIT, MIXED WITH APPROVED AMENDMENTS AND USED AS BACKFILL DURING INSTALLATION OF SHRUB.

MULCH IN ACCORDANCE WITH SPECIFICATIONS. DO NOT PLACE MULCH AGAINST THE SHRUB STEMS.

REMOVE BURLAP & WIRE BASKETS TO TOP OF THE ROOTBALL. DO NOT LEAVE BURLAP, BASKET, OR ROPE DEBRIS IN THE PIT.

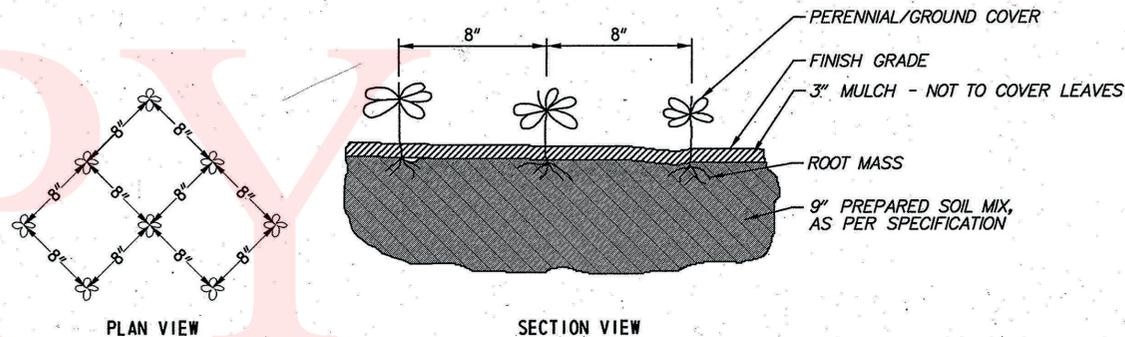
ROOT BALL SHALL BE PLACED ON TAMPED OR UNEXCAVATED SOIL.

**NOTES:**

1. BASE OF PLANTING PIT SHALL BE A MINIMUM WIDTH OF TWICE THE ROOT BALL SIZE AND A MAXIMUM OF THREE TIMES THE ROOT BALL SIZE.
2. SHRUBS SHALL BE INSTALLED IN MASSES OF NO LESS THAN 3 PLANTS. A MINIMUM OF 6' (1800) WIDTH IS REQUIRED FROM THE BACK OF CURB TO THE EDGE OF SIDEWALK FOR INSTALLATION OF SHRUBS.
3. ALL PRUNING SHALL BE DONE BY AN I.S.A. CERTIFIED ARBORIST, CERTIFIED NURSERY PROFESSIONAL, OR UNDER THE DIRECTION THEREOF. DO NOT HEAVILY PRUNE SHRUBS AT PLANTING.
4. AUGERED HOLES SHALL BE HAND DUG TO FINAL WIDTH AND TO ELIMINATE GLAZING.
5. ALL SHRUB MASSES SHALL BE MULCHED AS ONE CONTINUOUS BED.

**ROADSIDE SHRUB PLANTING DETAIL**

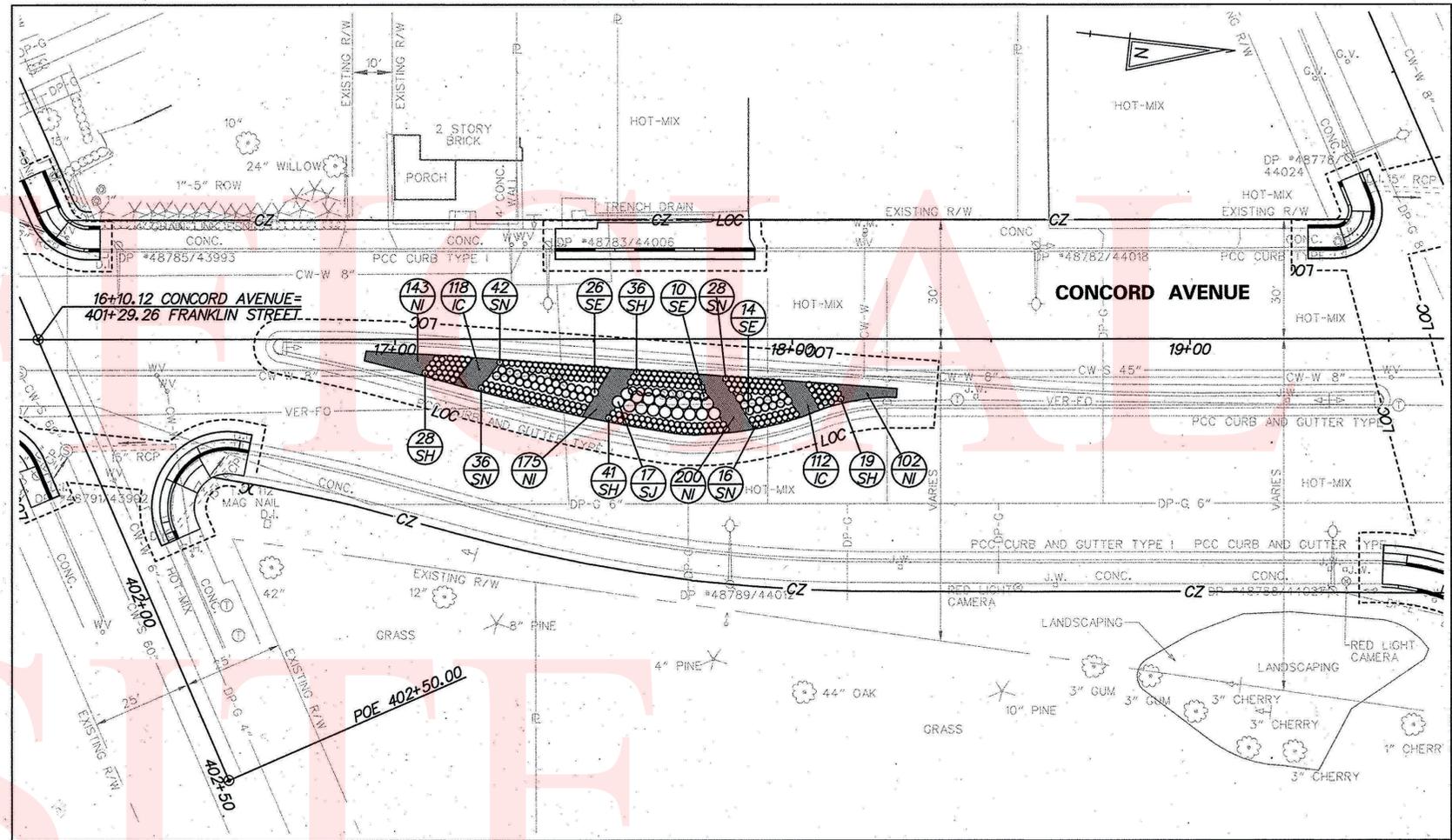
SCALE: NONE



NOTES:  
1. SEE PLANT LIST FOR SPACING REQUIREMENTS.

**PERENNIAL/GROUNDCOVER PLANTING DETAIL**

SCALE: NONE



**LANDSCAPE PLAN**

SCALE: 1" = 20'

**NOTES:**

61. ALL LANDSCAPING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR SECTIONS: SECTION 737 - LANDSCAPING SECTION 737 - MULCHING PLANTS
7. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES SHOWN ON THE PLANS WITH TOTALS IN THE PLANT SCHEDULE. WHERE DISCREPANCIES OCCUR BETWEEN PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL GOVERN.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO INSTALLATION OF PLANT MATERIAL. THE CONTRACTOR SHALL ALSO BE COGNIZANT OF PROPOSED UTILITY LOCATIONS AS SHOWN ON THE PLANS.
9. ALL PLANTING OPERATIONS SHALL BE UNDER THE SUPERVISION OF A CERTIFIED LANDSCAPE PROFESSIONAL AS CERTIFIED BY A NATIONAL, STATE, OR OTHER PROFESSIONAL RECOGNIZED ORGANIZATION.
10. FOR THE PLANT ESTABLISHMENT PERIOD AND FOR LANDSCAPE MAINTENANCE RESPONSIBILITY FOLLOWING FINAL ACCEPTANCE, SEE ITEM 737523 - PLANTING.
11. ALL EXISTING TREES TO REMAIN THAT ARE DISTURBED DURING CONSTRUCTION SHALL HAVE THE DAMAGE CORRECTED BY A CERTIFIED ARBORIST AT THE EXPENSE OF THE CONTRACTOR. IF DAMAGE IS DETERMINED TO BE TOO EXTENSIVE, THE TREE SHALL BE REPLACED WITH ONE OF THE SAME SPECIES AND CALIBER, AT THE CONTRACTOR'S EXPENSE.
12. USE DELDOT STANDARD DETAILS L1-1, L1-2 AND L1-3, AS APPROPRIATE.

PREPARED BY  
THE CONSULTING FIRM OF  
**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
ENGINEERS - ARCHITECTS - PLANNERS  
EST. 1915

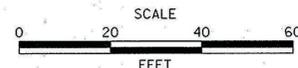


MICHAEL J. CAMPBELL, RLA

RECOMMENDED FEBRUARY 29 2012



ADDENDUMS / REVISIONS



CONCORD AVENUE  
STREETSCAPE IMPROVEMENTS,  
CITY OF WILMINGTON

CONTRACT	BRIDGE NO.
T201020009	
COUNTY	DESIGNED BY: G.R.P.
NEW CASTLE	CHECKED BY: T.A.O.

LANDSCAPING PLAN  
AND DETAILS

LS-01

SHEET NO.

47

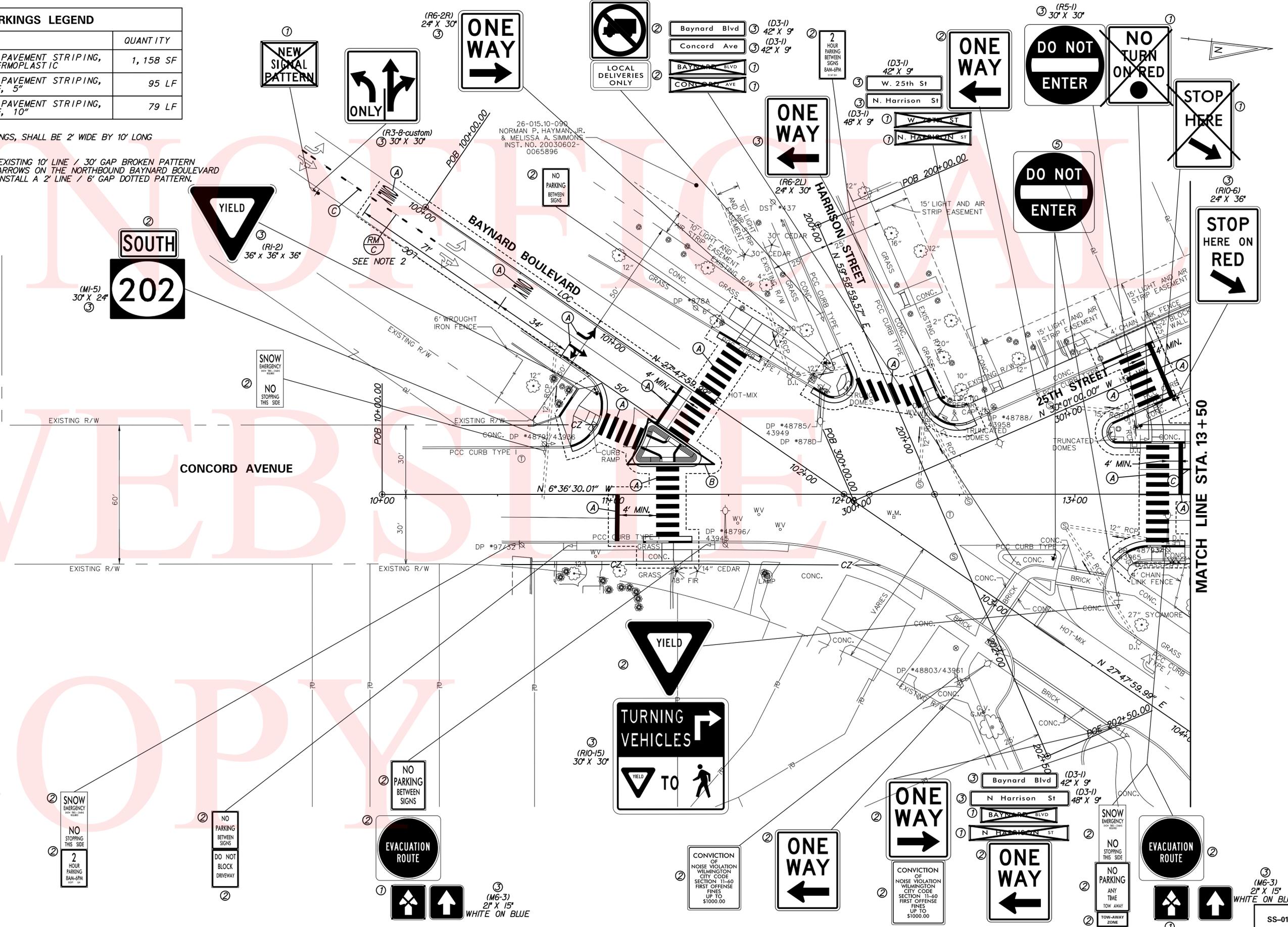
TOTAL SHTS.

52

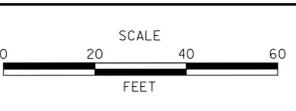
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	ITEM 748015 - PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1, 158 SF
(B)	ITEM 748548 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5"	95 LF
(C)	ITEM 748549 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10"	79 LF

- NOTES:**
- CROSSWALK SYMBOLS, FOR ALL CROSSINGS, SHALL BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS.
  - THE CONTRACTOR SHALL REMOVE THE EXISTING 10' LINE / 30' GAP BROKEN PATTERN BETWEEN THE SET OF EXISTING LANE ARROWS ON THE NORTHBOUND BAYNARD BOULEVARD APPROACH TO CONCORD AVENUE AND INSTALL A 2' LINE / 6' GAP DOTTED PATTERN.

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



ADDENDUMS / REVISIONS	



CONTRACT T201020009	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: G.R.P.
	CHECKED BY: T.A.O.

SHEET NO. 48
TOTAL SHTS. 52

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SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	ITEM 748015 - PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	366 SF
(B)	ITEM 748548 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5"	0 LF
(C)	ITEM 748549 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10"	207 LF

NOTES:  
 1. CROSSWALK SYMBOLS, FOR ALL CROSSWALKS, SHALL BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS.

② CONVICTION OF NOISE VIOLATION WILMINGTON CITY CODE SECTION 11-40 FIRST OFFENSE FINES UP TO \$1000.00

② NO STOPPING AT ANY TIME TOW AWAY

② SNOW EMERGENCY

② NO STOPPING THIS SIDE

② WARNING NEIGHBORHOOD WATCH COMMUNITY  
 CITIZENS IMMEDIATELY REPORT ANY SUSPICIOUS PERSONS OR ACTIVITIES TO THEIR LOCAL LAW ENFORCEMENT

② ONLY  
 RIGHT LANE MUST TURN RIGHT

② SPEED LIMIT 25

① STOP  
 ③ STOP

① DO NOT ENTER

① DO NOT ENTER

③ RIGHT LANE MUST TURN RIGHT

①

③ (R3-2) 36" X 36"

② WARNING NEIGHBORHOOD WATCH COMMUNITY  
 CITIZENS IMMEDIATELY REPORT ANY SUSPICIOUS PERSONS OR ACTIVITIES TO THEIR LOCAL LAW ENFORCEMENT

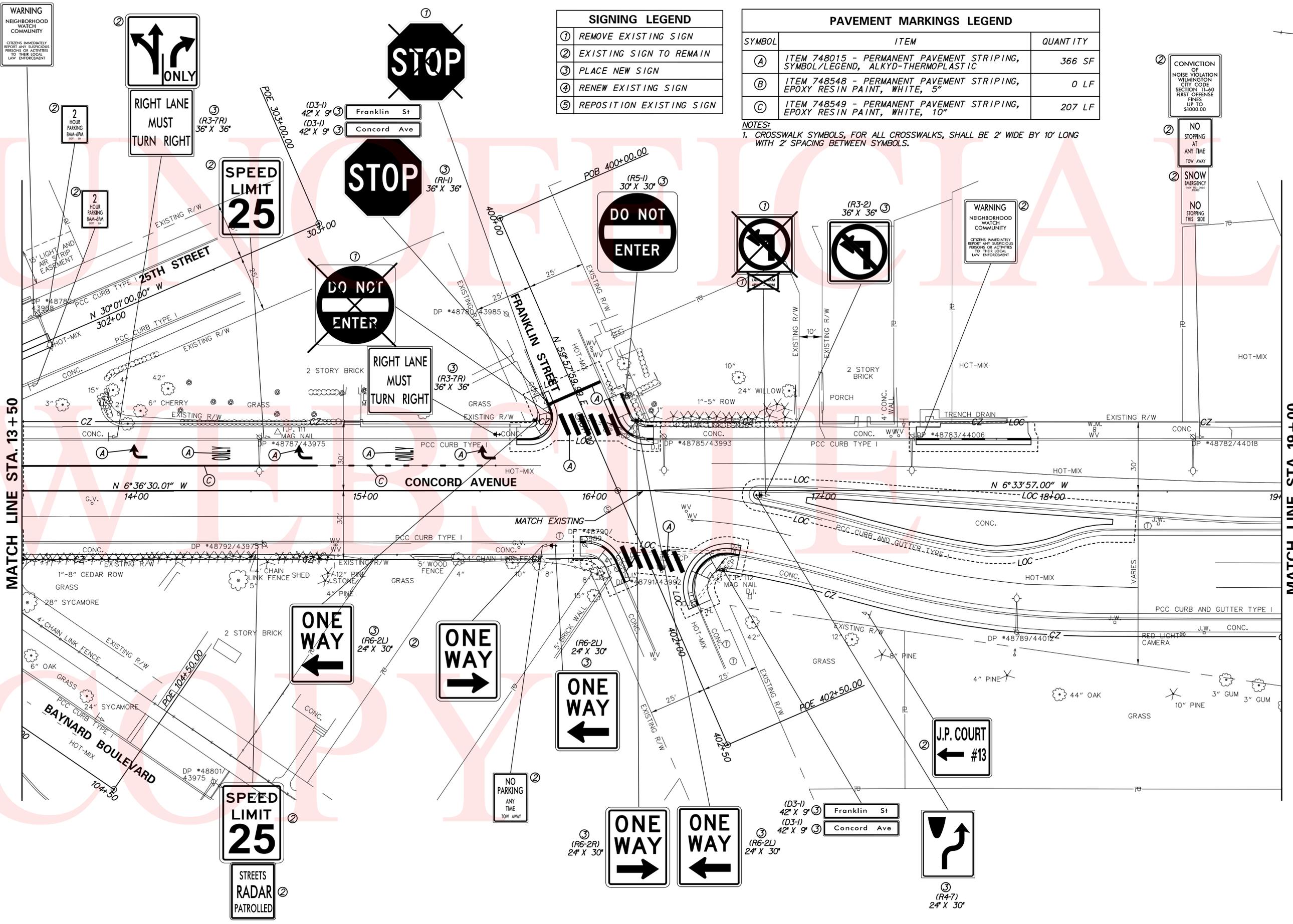
② NO STOPPING AT ANY TIME TOW AWAY

② SNOW EMERGENCY

② NO STOPPING THIS SIDE

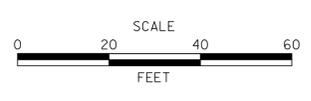
MATCH LINE STA. 13+50

MATCH LINE STA. 19+00

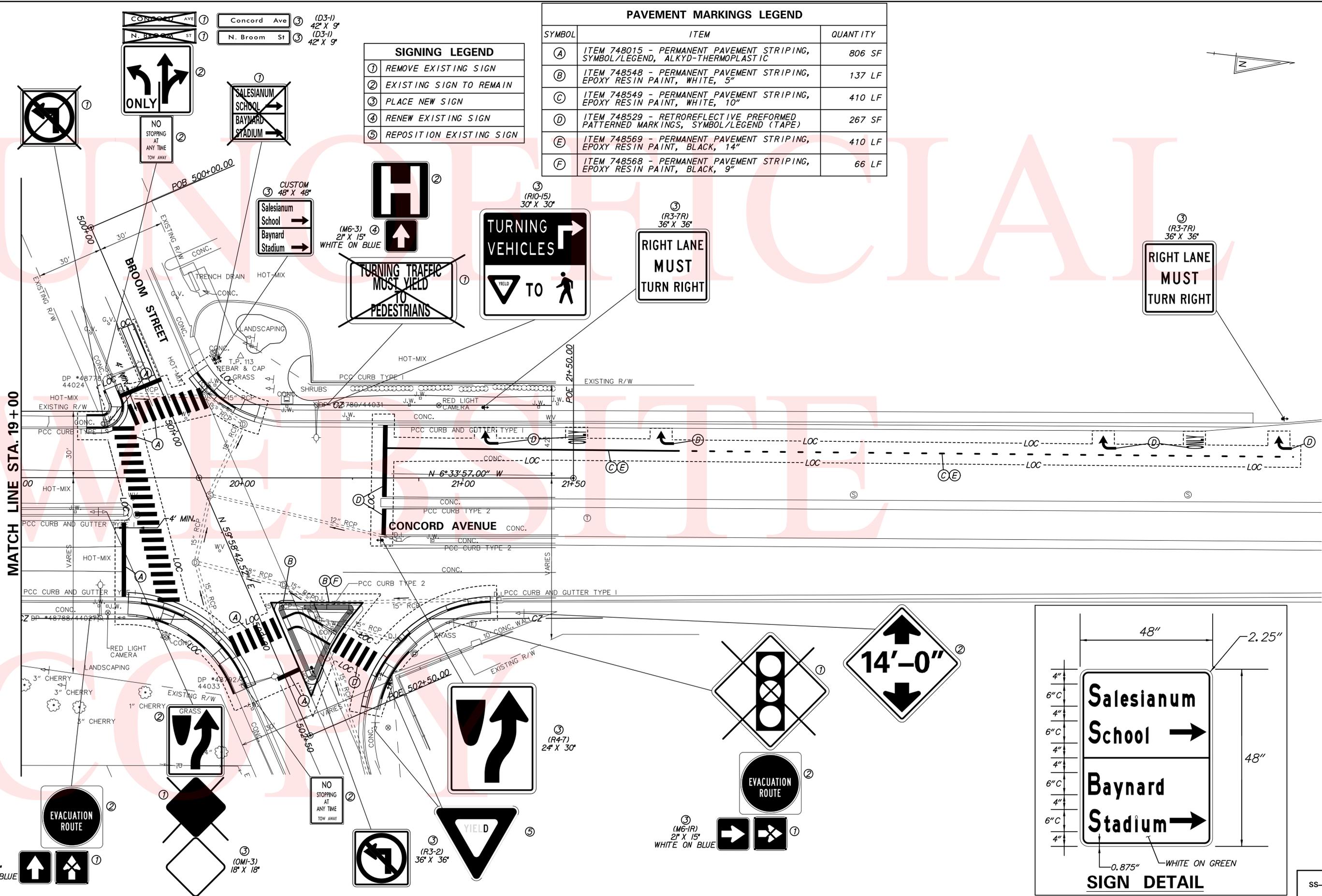


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ADDENDUMS / REVISIONS	

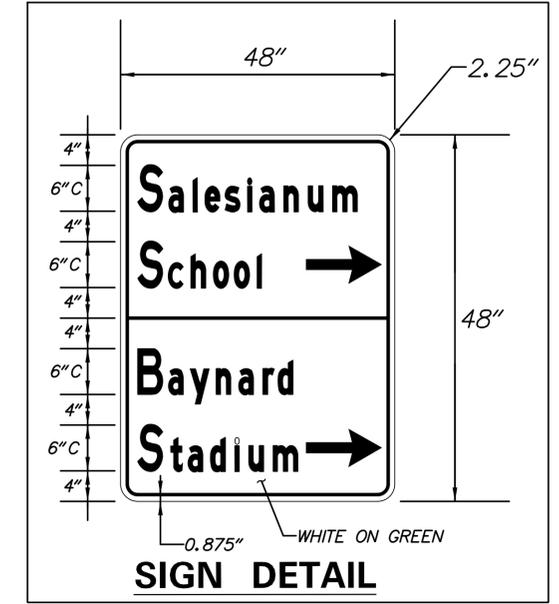


CONTRACT T201020009	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: G.R.P.
	CHECKED BY: T.A.O.



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	ITEM 748015 - PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	806 SF
(B)	ITEM 748548 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5"	137 LF
(C)	ITEM 748549 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10"	410 LF
(D)	ITEM 748529 - RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND (TAPE)	267 SF
(E)	ITEM 748569 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 14"	410 LF
(F)	ITEM 748568 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 9"	66 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



CONDUIT RUN SCHEDULE					
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	2.5 IN	2 FT	-	EX. (1) 2/*8 U.F. W/ GROUND, EX. (2) 16/*14, EX. (1) 9/*14, EX. (1) 4/*14, EX. (1) 4/*18
2*	1	2.5 IN	49 FT	-	EX. (1) 9/*14, EX. (1) 4/*18, [NEW (2) 9/*14]
3*	1	2.5 IN	7 FT	-	<REMOVE (1) 9/*14>
4*	1	2.5 IN	29 FT	-	<REMOVE (1) 9/*14>
6*	1	2.5 IN	7 FT	-	EX. (3) 9/*14, <REMOVE (1) 9/*14>
7*	1	2.5 IN	33 FT	-	EX. (2) 9/*14
8*	1	2.5 IN	11 FT	-	<REMOVE (1) 9/*14>
9*	1	2.5 IN	35 FT	-	EX. (2) 9/*14
10*	1	2.5 IN	7 FT	-	EX. (1) 9/*14
11*	1	2.5 IN	35 FT	-	EX. (1) 9/*14
12*	1	2.5 IN	3 FT	-	EX. (1) 9/*14
13	1	2.5 IN	5 FT	T	[NEW (2) 9/*14]
14	1	2.5 IN	25 FT	T	[NEW (1) 9/*14]
15	1	2.5 IN	14 FT	T	[NEW (1) 9/*14]
16	1	2.5 IN	8 FT	O	[NEW (1) 9/*14]
17	1	4.0 IN	36 FT	O	[NEW (1) 9/*14]
19	1	2.5 IN	14 FT	T	[NEW (1) 9/*14]
20	1	2.5 IN	20 FT	O	[NEW (1) 9/*14]
21	1	2.5 IN	8 FT	T	[NEW (1) 9/*14]
22	1	2.5 IN	13 FT	O	[NEW (1) 9/*14]
23	1	4.0 IN	11 FT	T	[NEW (1) 9/*14]
25	1	2.5 IN	22 FT	O	[NEW (1) 9/*14]
26	1	2.5 IN	8 FT	O	[NEW (1) 9/*14]
27	1	2.5 IN	9 FT	T	[NEW (1) 9/*14]
28	1	2.5 IN	9 FT	T	[NEW (1) 9/*14]
29	1	2.5 IN	7 FT	O	[NEW (1) 9/*14]
30	1	2.5 IN	6 FT	T	[NEW (1) 9/*14]
31	1	2.5 IN	30 FT	O	[NEW (1) 9/*14]

\*DENOTES EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT

EXISTING OVERHEAD SIGNING



S-1

PROPOSED OVERHEAD SIGNING



S-2 (R10-11) 36" X 48"

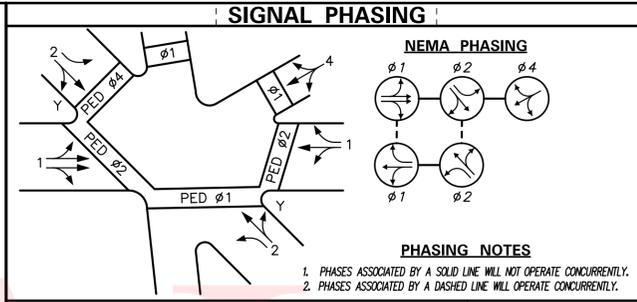
PROPOSED OVERHEAD SIGNING



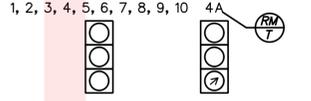
S-3 (R3-4) 36" X 36"

NOTES:

1. THE CONTRACTOR SHALL SPLICE THE LEAD-IN CABLES FOR THE PROPOSED LOOP DETECTORS TO THE EXISTING 4/\*18 'HOME RUN' CABLE.



SIGNAL HEAD DIAGRAM

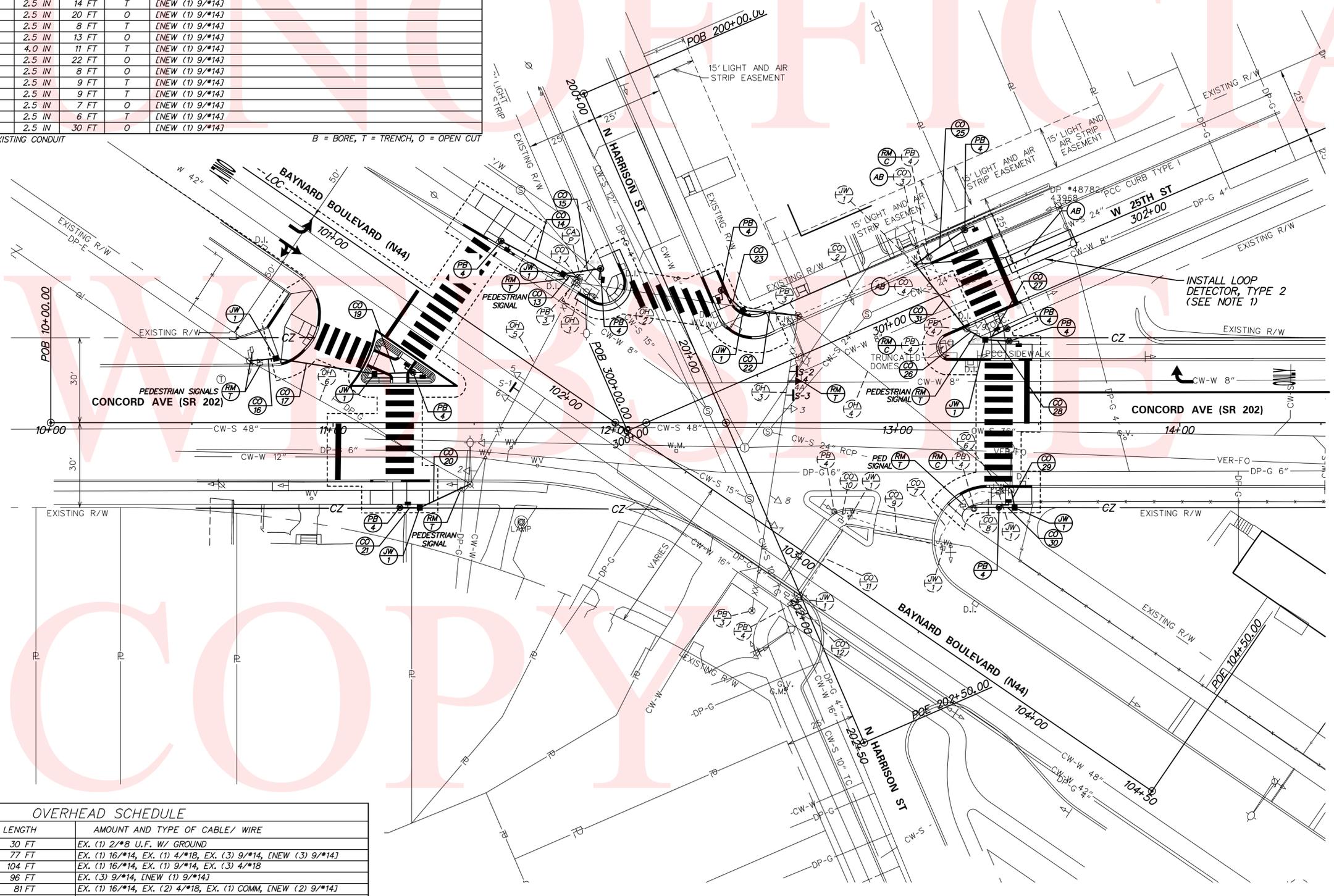


LEGEND

- PROPOSED SIGNAL CABINET
- EXISTING SIGNAL CABINET
- PROPOSED SIGNAL POLE BASE
- ⊙ EXISTING SIGNAL POLE BASE
- ⊙ PROPOSED PEDESTRIAN POLE BASE
- ⊙ EXISTING PEDESTRIAN POLE BASE
- PROPOSED WOOD POLE
- EXISTING UTILITY POLE
- PROPOSED JUNCTION WELL
- EXISTING JUNCTION WELL
- PROPOSED SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PROPOSED PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- EXISTING PEDESTRIAN PUSHBUTTON
- PROPOSED VIDEO DETECTION
- EXISTING VIDEO DETECTION
- PROPOSED MICROWAVE DETECTION
- EXISTING MICROWAVE DETECTION
- OVERHEAD SIGNING
- PROPOSED OPTICOM RECEIVER
- EXISTING OPTICOM RECEIVER
- PROPOSED MAST ARM
- EXISTING MAST ARM
- PROPOSED LUMINAIRE
- EXISTING LUMINAIRE
- PROPOSED LOOP DETECTOR (TYPE 1 OR 2)
- EXISTING LOOP DETECTOR (TYPE 1 OR 2)
- REMOVE BY CONTRACTOR
- REMOVE BY OTHERS
- ABANDON
- PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- PROPOSED CONDUIT RUN IDENTIFIER (\* OF CONDUIT RUN)
- EXISTING CONDUIT RUN IDENTIFIER (\* OF CONDUIT RUN)
- PROPOSED OVERHEAD RUN IDENTIFIER (\* OF OVERHEAD RUN)
- EXISTING OVERHEAD RUN IDENTIFIER (\* OF OVERHEAD RUN)
- PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
- EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
- PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
- EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
- PROPOSED SPAN WIRE
- XX — EXISTING SPAN WIRE
- — — RIGHT-OF-WAY OR PROPERTY LINE
- ◆ PROPOSED SPAN INSULATOR
- ◇ EXISTING SPAN INSULATOR
- SERVICE PEDESTAL

GENERAL SIGNAL NOTES

- EXISTING LOOP DETECTOR, TYPE 2 - 6' X 25' (W. 25TH ST).
- ALL SIGNAL EQUIPMENT REMOVED FROM PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF ALL UNDERGROUND SIGNAL EQUIPMENT - E.G., JUNCTION WELLS, POLE BASES, AND CONDUIT. DELDOT TRAFFIC SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF ALL ELECTRICAL CABLES AND ABOVE GROUND SIGNAL EQUIPMENT - E.G., HEADS, OVERHEAD SIGNS, PEDESTRIAN SIGNAL DISPLAYS, AND POLES.



OVERHEAD SCHEDULE		
OH#	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE
1*	30 FT	EX. (1) 2/*8 U.F. W/ GROUND
2*	77 FT	EX. (1) 16/*14, EX. (1) 4/*18, EX. (3) 9/*14, [NEW (3) 9/*14]
3*	104 FT	EX. (1) 16/*14, EX. (1) 9/*14, EX. (3) 4/*18
4*	96 FT	EX. (3) 9/*14, [NEW (1) 9/*14]
5*	81 FT	EX. (1) 16/*14, EX. (2) 4/*18, EX. (1) COMM, [NEW (2) 9/*14]
6*	88 FT	<REMOVE (1) 9/*14>, [NEW (1) 9/*14]

\*DENOTES EXISTING OVERHEAD RUN

ADDENDUM / REVISIONS



CONCORD AVENUE  
STREETSCAPE IMPROVEMENTS,  
CITY OF WILMINGTON

CONTRACT T201020009	PERMIT NO. WILMINGTON
COUNTY NEW CASTLE	DESIGNED BY: G.R.P. (WR&A)
	CHECKED BY: T.A.O. (WR&A)

SIGNAL PLAN  
CONCORD AVENUE @  
BAYNARD BOULEVARD /  
W 25TH STREET

SG-01	SHEET NO. 51
	TOTAL SHTS. 52



