03 - CIVIL

INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
CVI-001	DRAWING INDEX
EXT-001 - EXT-002	EXISTING CONDITIONS PLAN
TIE-001	SURVEY CONTROL POINTS TIES AND NOTES
DMO-001	DEMOLITION PLAN
STG-001 - STG-004	CONSTRUCTION STAGING
CIV-001	SITE PLAN
CIV-002	CURB TIE PLAN
DRG-001 - DRG-006	GRADING AND DRAINAGE PLAN
UTL-001	UTILITY PLAN
SED-001	SEDIMENT CONTROL PLAN
DET-001 - DET-006	MISCELLANEOUS DETAILS

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER -

DESIGNED BY:

VANASSE HANGEN BRUSTLIN, INC.
54 TUTTLE PLACE
MIDDLETOWN, CT 06457-1847

STATE OF CONNECTICUT STEPHEN J. O'NEILL No. 19323 LICENSED PROFESSIONAL ENGINEER

Stephen O'Neill
2014.02.28
14:09:53-05'00'

DESIGNED BY:

Baker

MICHAEL BAKER ENGINEERING, INC.
500 ENTERPRISE DRIVE
SUITE 2B
ROCKY HILL, CT 06067

STATE OF CONNECTICUT RAYMOND E. WHITBREAD No. 19323 LICENSED PROFESSIONAL ENGINEER

Ray Whitbread
2014.02.28
13:58:26-05'00'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: D. PEKAROVIC
CHECKED BY: A SARDILLI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CVI...001.dgn

SIGNATURE/ BLOCK:

Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT RAYMOND E. WHITBREAD No. 19323 LICENSED PROFESSIONAL ENGINEER

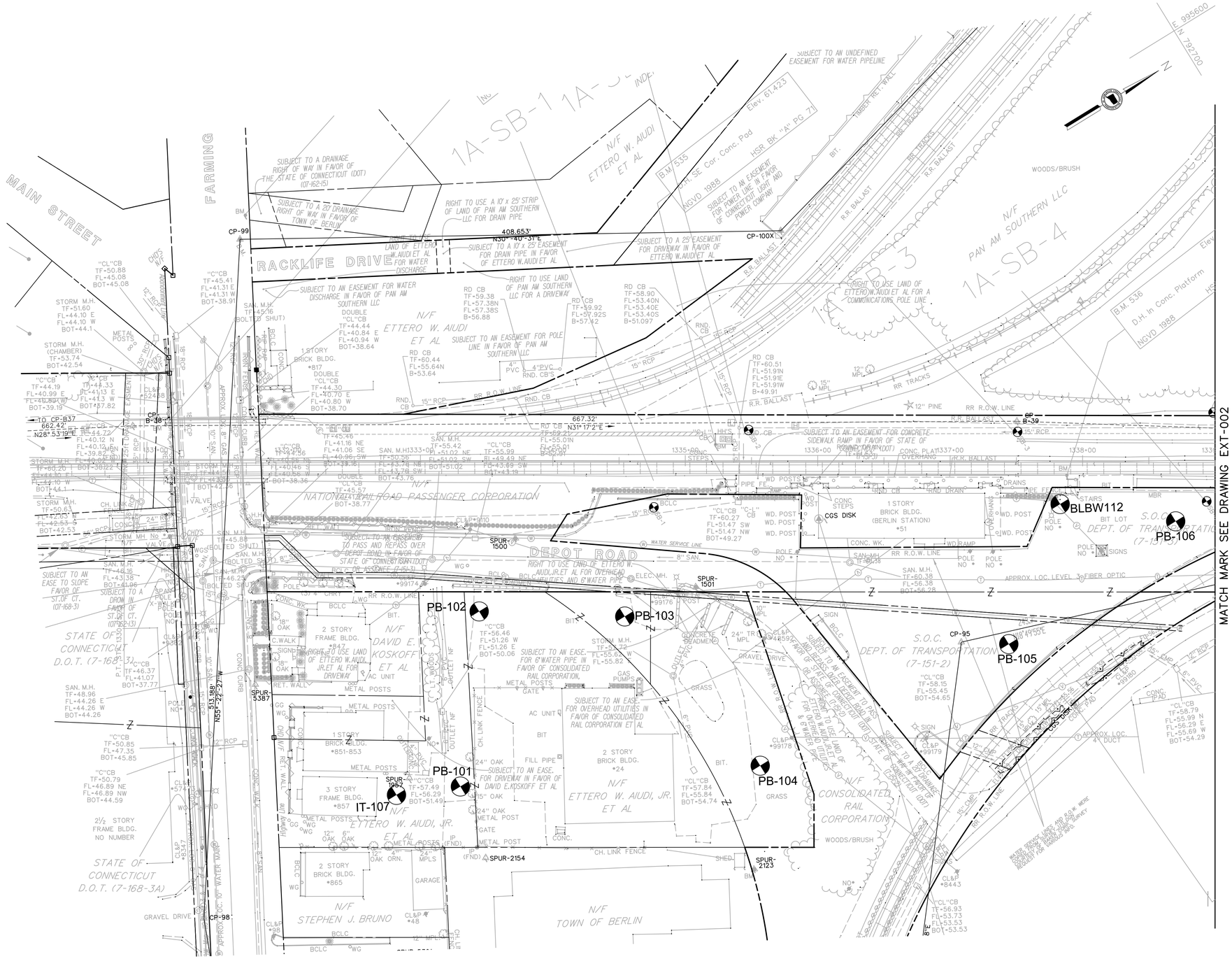
PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

TOWN: BERLIN

DRAWING TITLE: DRAWING INDEX

PROJECT NO. 170-3155
DRAWING NO. CVI-001
SHEET NO. 01.03.001

Connecticut Department of Transportation
QA/QC Format Check



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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **CONNDOT**

CHECKED BY: **CONNDOT**

SCALE IN FEET

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_GDS_SURVEY_001.dgn

SIGNATURE/ BLOCK: Baker OFFIC

Michael Baker Engineering Inc.
APPROVED BY 500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL COORIDOR

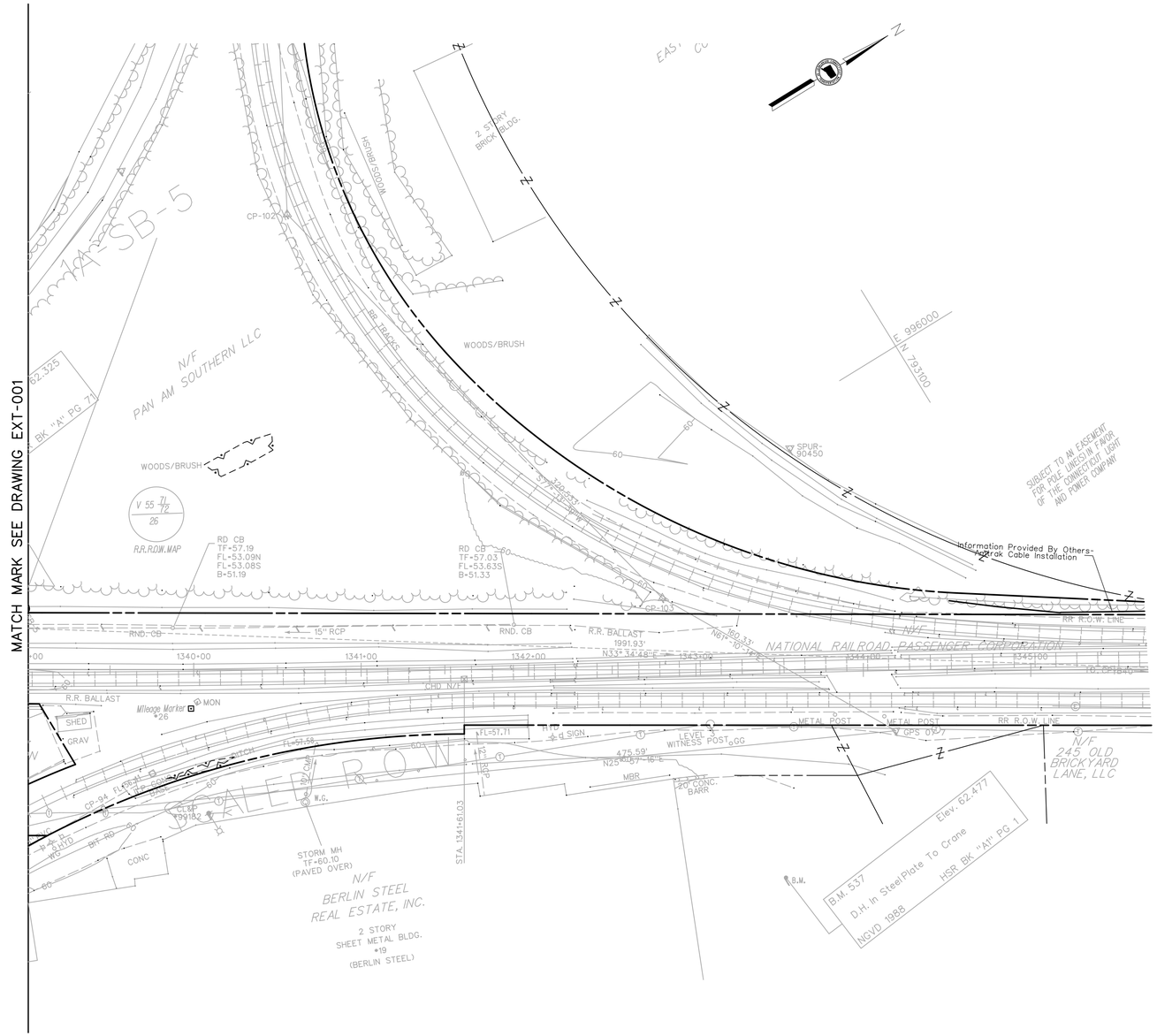
TOWN: **BERLIN**

DRAWING TITLE: **EXISTING CONDITIONS PLAN**

PROJECT NO. **170-3155**

DRAWING NO. **EXT-001**

SHEET NO. **01.03.002**



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CHECKED BY: **CONNDOT**

SCALE IN FEET

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007..04..GDS..SURVEY.002.dgn

SIGNATURE/ BLOCK: **OFFIC**

APPROVED BY

Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

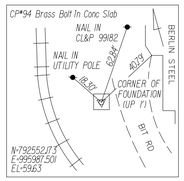
DRAWING TITLE: **EXISTING CONDITIONS PLAN**

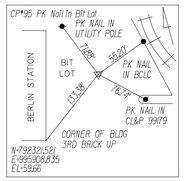
PROJECT NO. **170-3155**

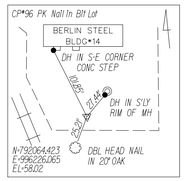
DRAWING NO. **EXT-002**

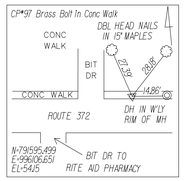
SHEET NO. **01.03.003**

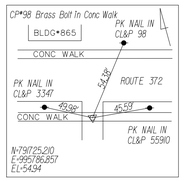
HORIZONTAL CONTROL POINTS (FIELD TIES NOT TO SCALE)

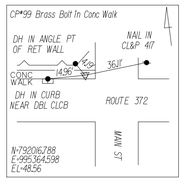


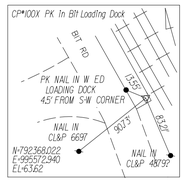


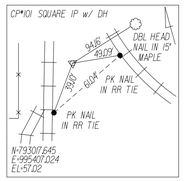


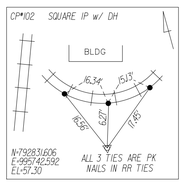


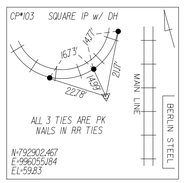


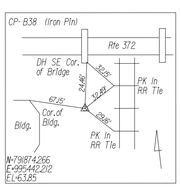


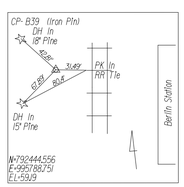


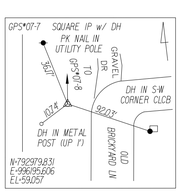


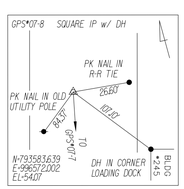












BENCH MARK DESCRIPTIONS

B.M. 534 — Elev. 65.339
D.H. SE Cor. Of Bridge O/ Rte 372
NGVD 1988 — HSR BK "A" PG 71

B.M. 535 — Elev. 61.423
D.H. SE Cor. Conc. Pad
NGVD 1988 — HSR BK "A" PG 71

B.M. 536 — Elev. 62.325
D.H. In Conc. Platform
NGVD 1988 — HSR BK "A" PG 71

B.M. 537 — Elev. 62.477
D.H. In Steel Plate To Crane
NGVD 1988 — HSR BK "A1" PG 1

B.M. BST2 — Elev.=56.46
D.H. IN N.E. CORNER OF CONCRETE BASE OF TRAFFIC CONTROL BOX
NAVD 1988

B.M. BST3 — Elev.=52.67
D.H. IN N.E. CORNER OF CONCRETE RETAINING WALL
NAVD 1988

CGS A-16 (DISK) — Elev.=59.33
CGS DISK SET IN SOUTH END OF CONCRETE PAD
NAVD 1988

CGS F-7 (DISK) — Elev.=61.816
DISK SET IN SOUTH END OF GRANITE STOOP
NAVD 1988

SURVEY NOTES

1.) SURVEY BY DISTRICT 1 SURVEYS

2.) FIELD BOOKS-HIGH SPEED RAIL(HSR) BOOKS A,A1,B,C,D

3.) 400 FOOT GRID BASED ON NAD 83

4.) VERTICAL DATUM BASED ON NAVD 88

5.) THE PROPERTY AND STREET LINES DEPICTED HAVE BEEN COMPILED FROM VARIOUS SOURCES AND ARE NOT TO BE CONSTRUED AS NECESSARILY BEING OBTAINED AS THE RESULT OF A FIELD SURVEY, NOR DO THEY REPRESENT A PROPERTY BOUNDARY OPINION

6.) UNDERGROUND UTLITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, LIMITED FIELD LOCATIONS AND OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTANCE OF WHICH ARE UKNOWN. THE SIZE LOCATION AND EXISTANCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

7.) UTILITIES ARE SUPPLIED BY THE FOLLOWING COMPANIES:
SOUTHERN NEW ENGLAND TELEPHONE , AMTRAK
CONNECTICUT NATURAL GAS CORP.
LEVEL 3 COMMUNICATIONS
ALGONQUIN GAS

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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: CONNDOT
CHECKED BY: CONNDOT
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007..04..GDS..SURVEY..CNTRL..PNTS..AND.. NOTES..001.dgn

SIGNATURE/BLOCK: OFFIC
Baker
Michael Baker Engineering Inc.
APPROVED BY 500 Enterprise Drive Suite 2B Rocky Hill, CT 06067

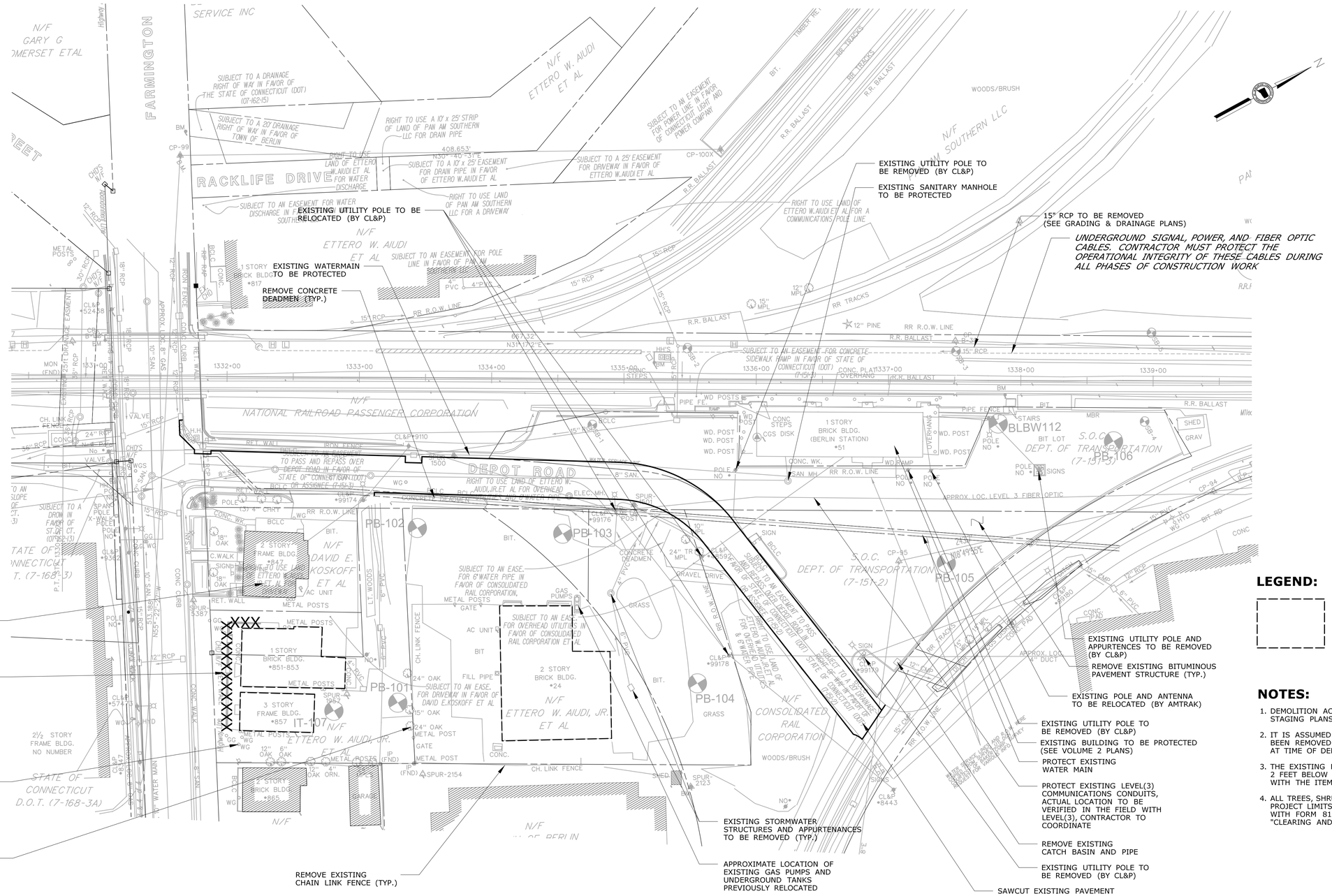
STATE OF CONNECTICUT PROFESSIONAL ENGINEER

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL COORIDOR

TOWN: BERLIN

DRAWING TITLE:
SURVEY CONTROL POINTS TIES AND NOTES

PROJECT NO. 170-3155
DRAWING NO. TIE-001
SHEET NO. 01.03.004



LEGEND:

APPROXIMATE LIMITS OF FOUNDATION FROM EXISTING BUILDING, PREVIOUSLY DEMOLISHED, TO BE REMOVED BY CONTRACTOR.

NOTES:

1. DEMOLITION ACTIVITIES TO BE COORDINATED WITH STAGING PLANS.
2. IT IS ASSUMED THAT THE FOUNDATION WALLS HAVE BEEN REMOVED TO AT LEAST 2 FEET BELOW GRADE AT TIME OF DEMOLITION.
3. THE EXISTING FOUNDATIONS SHALL BE REMOVED TO 2 FEET BELOW THE FINISHED GRADE IN ACCORDANCE WITH THE ITEM "ROCK EXCAVATION".
4. ALL TREES, SHRUBS, AND VEGETATION WITHIN THE PROJECT LIMITS SHALL BE REMOVED IN ACCORDANCE WITH FORM 816, SECTION 2.02 AND THE ITEM "CLEARING AND GRUBBING".

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **P BRAND**
CHECKED BY: **A SARDILLI**
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSD...DEMO..001.dgn

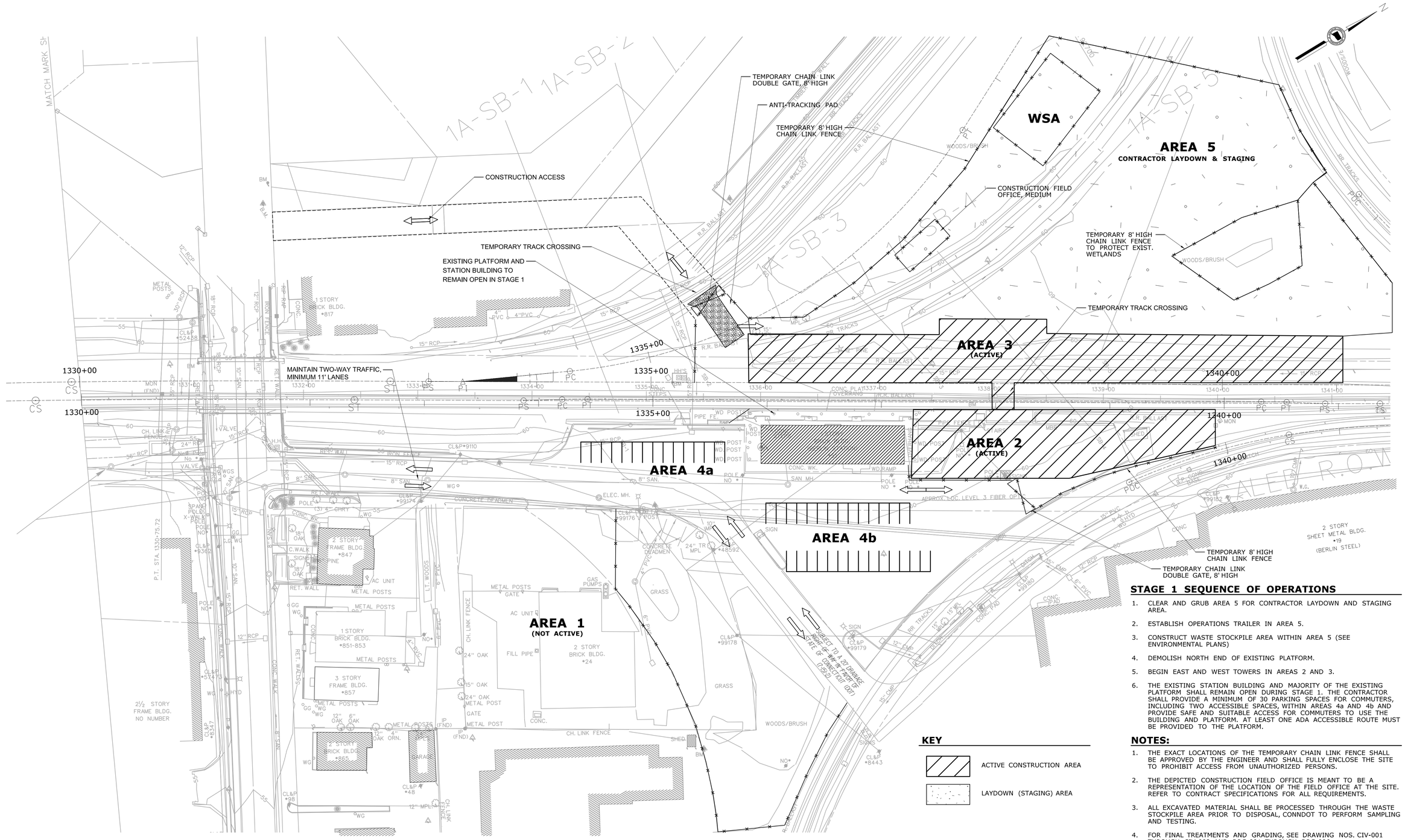
SIGNATURE/BLOCK:
Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **DEMOLITION PLAN**

PROJECT NO. **170-3155**
DRAWING NO. **DMO-001**
SHEET NO. **01.03.005**



STAGE 1 SEQUENCE OF OPERATIONS

1. CLEAR AND GRUB AREA 5 FOR CONTRACTOR LAYDOWN AND STAGING AREA.
2. ESTABLISH OPERATIONS TRAILER IN AREA 5.
3. CONSTRUCT WASTE STOCKPILE AREA WITHIN AREA 5 (SEE ENVIRONMENTAL PLANS)
4. DEMOLISH NORTH END OF EXISTING PLATFORM.
5. BEGIN EAST AND WEST TOWERS IN AREAS 2 AND 3.
6. THE EXISTING STATION BUILDING AND MAJORITY OF THE EXISTING PLATFORM SHALL REMAIN OPEN DURING STAGE 1. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 30 PARKING SPACES FOR COMMUTERS, INCLUDING TWO ACCESSIBLE SPACES, WITHIN AREAS 4a AND 4b AND PROVIDE SAFE AND SUITABLE ACCESS FOR COMMUTERS TO USE THE BUILDING AND PLATFORM. AT LEAST ONE ADA ACCESSIBLE ROUTE MUST BE PROVIDED TO THE PLATFORM.

KEY

ACTIVE CONSTRUCTION AREA

LAYDOWN (STAGING) AREA

NOTES:

1. THE EXACT LOCATIONS OF THE TEMPORARY CHAIN LINK FENCE SHALL BE APPROVED BY THE ENGINEER AND SHALL FULLY ENCLOSE THE SITE TO PROHIBIT ACCESS FROM UNAUTHORIZED PERSONS.
2. THE DEPICTED CONSTRUCTION FIELD OFFICE IS MEANT TO BE A REPRESENTATION OF THE LOCATION OF THE FIELD OFFICE AT THE SITE. REFER TO CONTRACT SPECIFICATIONS FOR ALL REQUIREMENTS.
3. ALL EXCAVATED MATERIAL SHALL BE PROCESSED THROUGH THE WASTE STOCKPILE AREA PRIOR TO DISPOSAL, CONNDOT TO PERFORM SAMPLING AND TESTING.
4. FOR FINAL TREATMENTS AND GRADING, SEE DRAWING NOS. CIV-001 THROUGH CIV-002 AND DRG-001 THROUGH DRG-006.

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DESIGNER/DRAFTER: **P. BRAND**

CHECKED BY: **A. SARDILLI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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SIGNATURE/BLOCK: Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT PROFESSIONAL ENGINEER

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

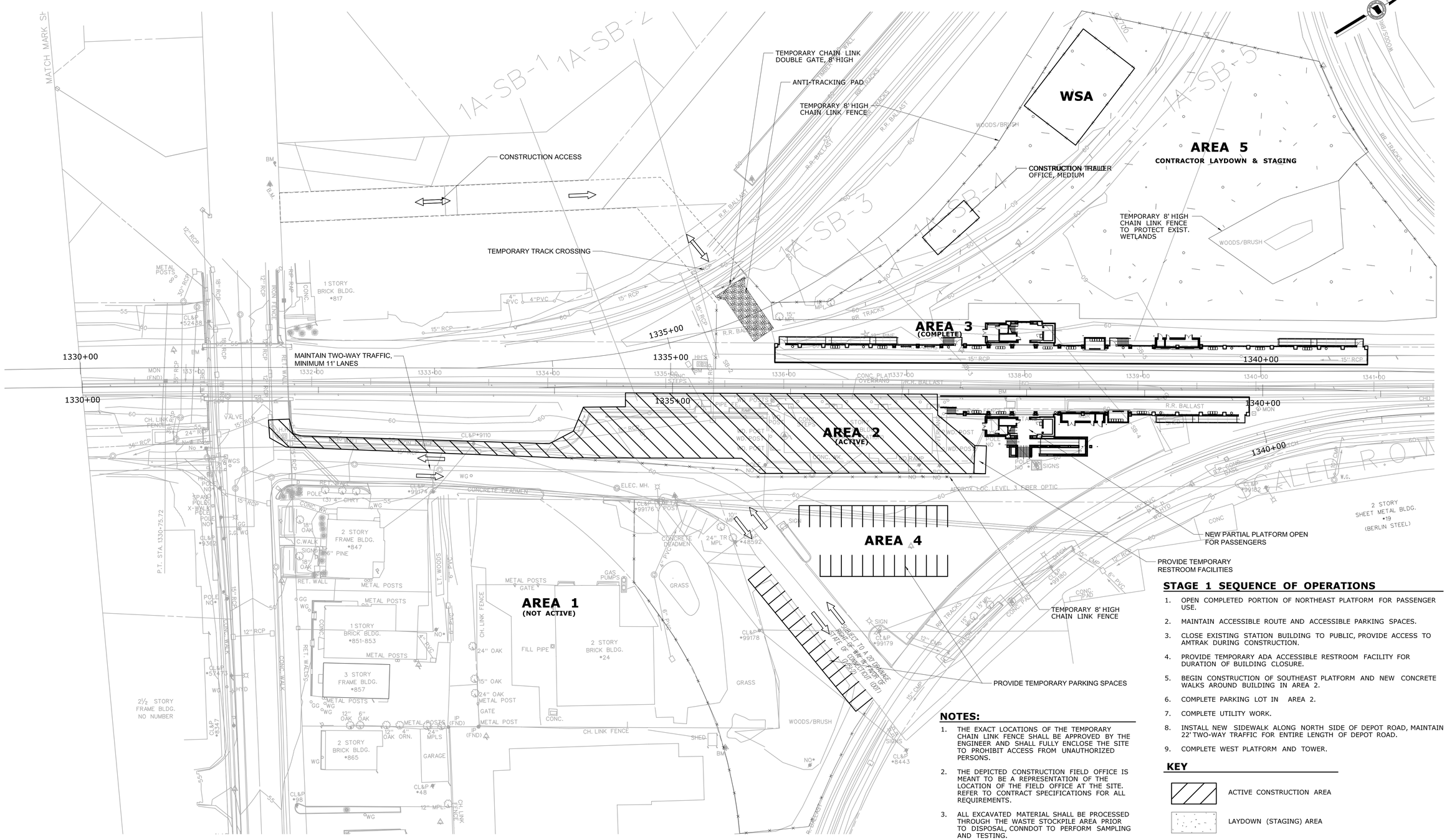
TOWN: **BERLIN**

DRAWING TITLE: **CONSTRUCTION STAGING STAGE 1**

PROJECT NO. **170-3155**

DRAWING NO. **STG-001**

SHEET NO. **01.03.006**



STAGE 1 SEQUENCE OF OPERATIONS

1. OPEN COMPLETED PORTION OF NORTHEAST PLATFORM FOR PASSENGER USE.
2. MAINTAIN ACCESSIBLE ROUTE AND ACCESSIBLE PARKING SPACES.
3. CLOSE EXISTING STATION BUILDING TO PUBLIC, PROVIDE ACCESS TO AMTRAK DURING CONSTRUCTION.
4. PROVIDE TEMPORARY ADA ACCESSIBLE RESTROOM FACILITY FOR DURATION OF BUILDING CLOSURE.
5. BEGIN CONSTRUCTION OF SOUTHEAST PLATFORM AND NEW CONCRETE WALKS AROUND BUILDING IN AREA 2.
6. COMPLETE PARKING LOT IN AREA 2.
7. COMPLETE UTILITY WORK.
8. INSTALL NEW SIDEWALK ALONG NORTH SIDE OF DEPOT ROAD, MAINTAIN 22' TWO-WAY TRAFFIC FOR ENTIRE LENGTH OF DEPOT ROAD.
9. COMPLETE WEST PLATFORM AND TOWER.

NOTES:

1. THE EXACT LOCATIONS OF THE TEMPORARY CHAIN LINK FENCE SHALL BE APPROVED BY THE ENGINEER AND SHALL FULLY ENCLOSE THE SITE TO PROHIBIT ACCESS FROM UNAUTHORIZED PERSONS.
2. THE DEPICTED CONSTRUCTION FIELD OFFICE IS MEANT TO BE A REPRESENTATION OF THE LOCATION OF THE FIELD OFFICE AT THE SITE. REFER TO CONTRACT SPECIFICATIONS FOR ALL REQUIREMENTS.
3. ALL EXCAVATED MATERIAL SHALL BE PROCESSED THROUGH THE WASTE STOCKPILE AREA PRIOR TO DISPOSAL, CONNDOT TO PERFORM SAMPLING AND TESTING.
4. FOR FINAL TREATMENTS AND GRADING, SEE DRAWING NOS. CIV-001 THROUGH CIV-002 AND DRG-001 THROUGH DRG-006.

KEY

ACTIVE CONSTRUCTION AREA

LAYDOWN (STAGING) AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **P. BRAND**
CHECKED BY: **A. SARDILLI**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_GEC_CONSTRUCTION_ST2.dgn

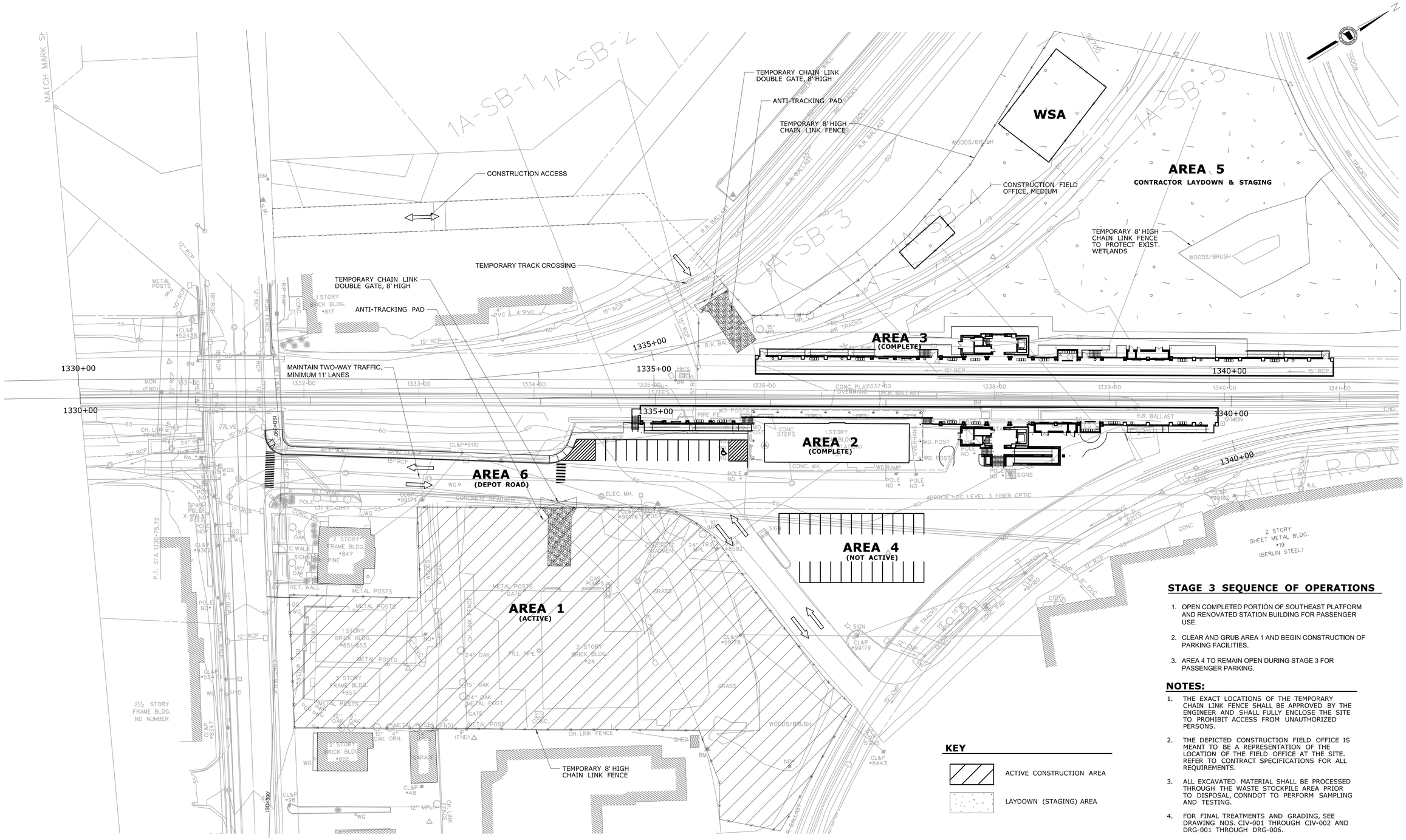
SIGNATURE/BLOCK: Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE: **NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR**

TOWN: **BERLIN**

DRAWING TITLE: **CONSTRUCTION STAGING STAGE 2**

PROJECT NO. **170-3155**
DRAWING NO. **STG-002**
SHEET NO. **01.03.007**



STAGE 3 SEQUENCE OF OPERATIONS

1. OPEN COMPLETED PORTION OF SOUTHEAST PLATFORM AND RENOVATED STATION BUILDING FOR PASSENGER USE.
2. CLEAR AND GRUB AREA 1 AND BEGIN CONSTRUCTION OF PARKING FACILITIES.
3. AREA 4 TO REMAIN OPEN DURING STAGE 3 FOR PASSENGER PARKING.

NOTES:

1. THE EXACT LOCATIONS OF THE TEMPORARY CHAIN LINK FENCE SHALL BE APPROVED BY THE ENGINEER AND SHALL FULLY ENCLOSE THE SITE TO PROHIBIT ACCESS FROM UNAUTHORIZED PERSONS.
2. THE DEPICTED CONSTRUCTION FIELD OFFICE IS MEANT TO BE A REPRESENTATION OF THE LOCATION OF THE FIELD OFFICE AT THE SITE. REFER TO CONTRACT SPECIFICATIONS FOR ALL REQUIREMENTS.
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4. FOR FINAL TREATMENTS AND GRADING, SEE DRAWING NOS. CIV-001 THROUGH CIV-002 AND DRG-001 THROUGH DRG-006.

KEY

- ACTIVE CONSTRUCTION AREA
- LAYDOWN (STAGING) AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **P. BRAND**
CHECKED BY: **A. SARDILLI**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_GEC_003.dgn

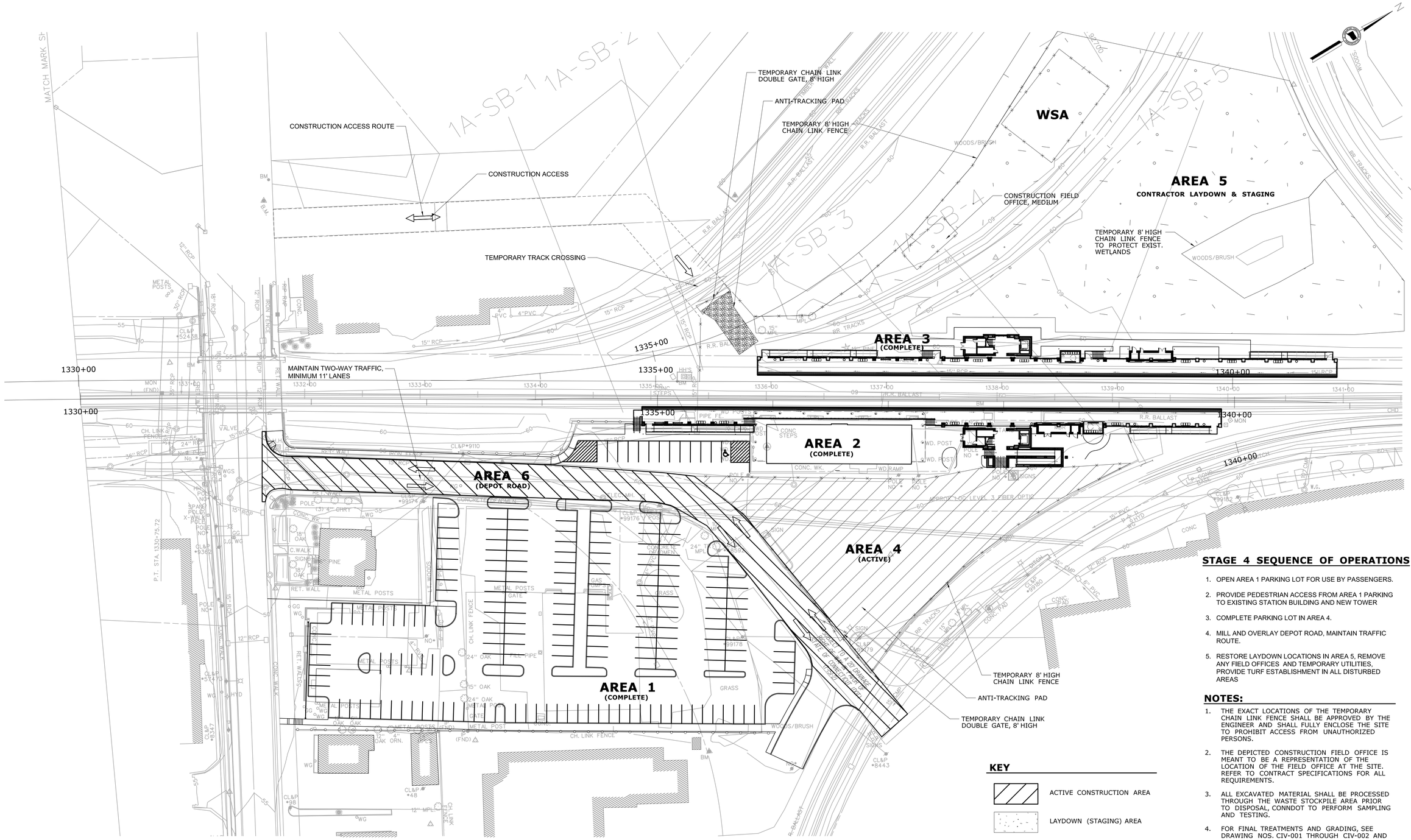
SIGNATURE/BLOCK:
Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **CONSTRUCTION STAGING STAGE 3**

PROJECT NO. **170-3155**
DRAWING NO. **STG-003**
SHEET NO. **01.03.008**



STAGE 4 SEQUENCE OF OPERATIONS

1. OPEN AREA 1 PARKING LOT FOR USE BY PASSENGERS.
2. PROVIDE PEDESTRIAN ACCESS FROM AREA 1 PARKING TO EXISTING STATION BUILDING AND NEW TOWER
3. COMPLETE PARKING LOT IN AREA 4.
4. MILL AND OVERLAY DEPOT ROAD, MAINTAIN TRAFFIC ROUTE.
5. RESTORE LAYDOWN LOCATIONS IN AREA 5. REMOVE ANY FIELD OFFICES AND TEMPORARY UTILITIES. PROVIDE TURF ESTABLISHMENT IN ALL DISTURBED AREAS

NOTES:

1. THE EXACT LOCATIONS OF THE TEMPORARY CHAIN LINK FENCE SHALL BE APPROVED BY THE ENGINEER AND SHALL FULLY ENCLOSE THE SITE TO PROHIBIT ACCESS FROM UNAUTHORIZED PERSONS.
2. THE DEPICTED CONSTRUCTION FIELD OFFICE IS MEANT TO BE A REPRESENTATION OF THE LOCATION OF THE FIELD OFFICE AT THE SITE. REFER TO CONTRACT SPECIFICATIONS FOR ALL REQUIREMENTS.
3. ALL EXCAVATED MATERIAL SHALL BE PROCESSED THROUGH THE WASTE STOCKPILE AREA PRIOR TO DISPOSAL, CONNDOT TO PERFORM SAMPLING AND TESTING.
4. FOR FINAL TREATMENTS AND GRADING, SEE DRAWING NOS. CIV-001 THROUGH CIV-002 AND DRG-001 THROUGH DRG-006.

KEY

ACTIVE CONSTRUCTION AREA

LAYDOWN (STAGING) AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **P. BRAND**

CHECKED BY: **A. SARDILLI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007..04..GEC..CONSTRUCTION..ST4.dgn

SIGNATURE/ BLOCK:

Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT PROFESSIONAL ENGINEER

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE:
CONSTRUCTION STAGING STAGE 4

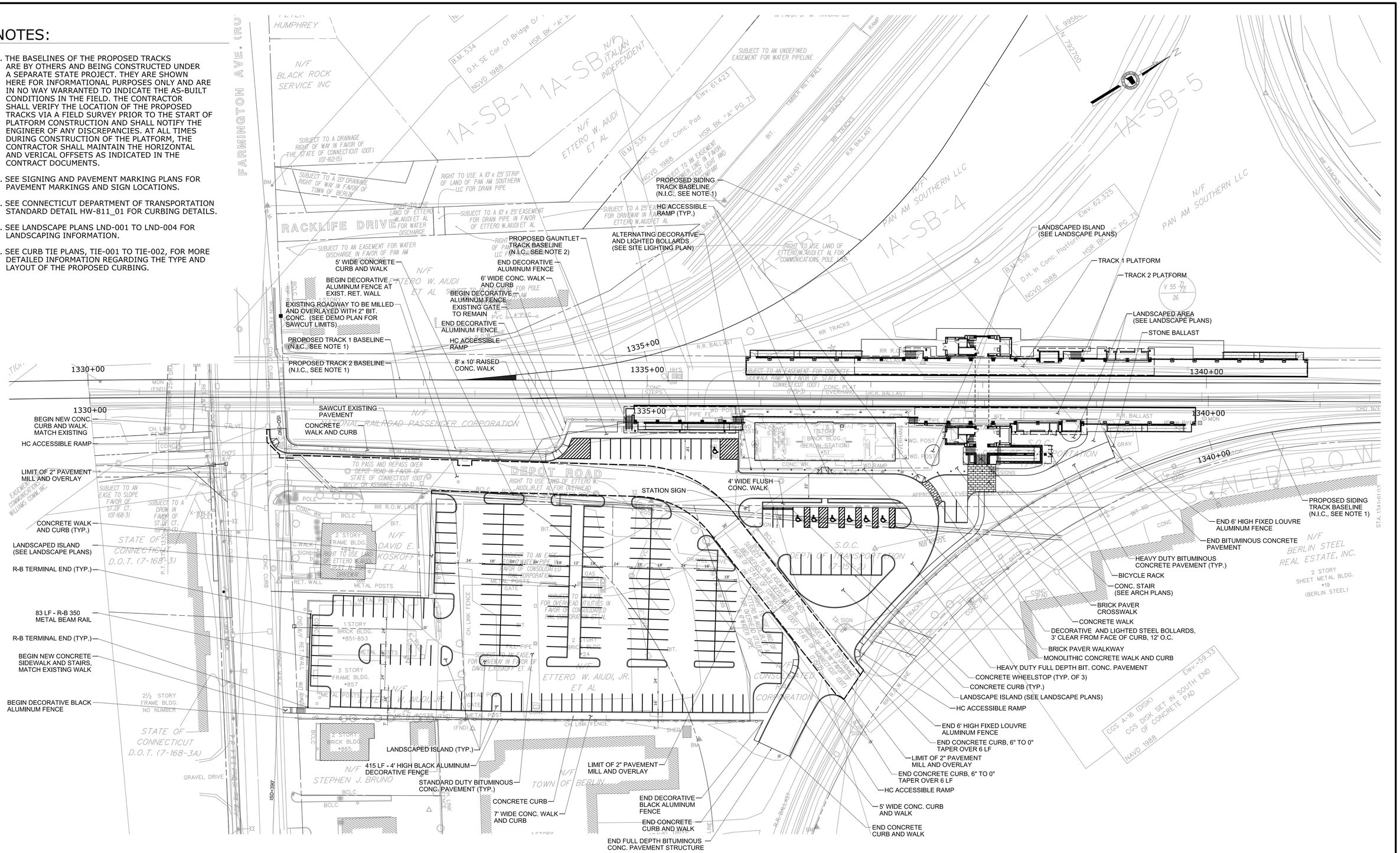
PROJECT NO. **170-3155**

DRAWING NO. **STG-004**

SHEET NO. **01.03.009**

NOTES:

1. THE BASELINES OF THE PROPOSED TRACKS ARE BY OTHERS AND BEING CONSTRUCTED UNDER A SEPARATE STATE PROJECT. THEY ARE SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY AND ARE IN NO WAY WARRANTED TO INDICATE THE AS-BUILT CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED TRACKS VIA A FIELD SURVEY PRIOR TO THE START OF PLATFORM CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. AT ALL TIMES DURING CONSTRUCTION OF THE PLATFORM, THE CONTRACTOR SHALL MAINTAIN THE HORIZONTAL AND VERICAL OFFSETS AS INDICATED IN THE CONTRACT DOCUMENTS.
2. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS AND SIGN LOCATIONS.
3. SEE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD DETAIL HW-811_01 FOR CURBING DETAILS.
4. SEE LANDSCAPE PLANS LND-001 TO LND-004 FOR LANDSCAPING INFORMATION.
5. SEE CURB TIE PLANS, TIE-001 TO TIE-002, FOR MORE DETAILED INFORMATION REGARDING THE TYPE AND LAYOUT OF THE PROPOSED CURBING.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **P. BRAND**
CHECKED BY: **A. SARDILLI**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_SITE PLAN_001.dgn

SIGNATURE/BLOCK:
Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE: **NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR**

TOWN: **BERLIN**

DRAWING TITLE: **SITE PLAN**

PROJECT NO. **170-3155**
DRAWING NO. **CIV-001**
SHEET NO. **01.03.010**

CURB POINTS

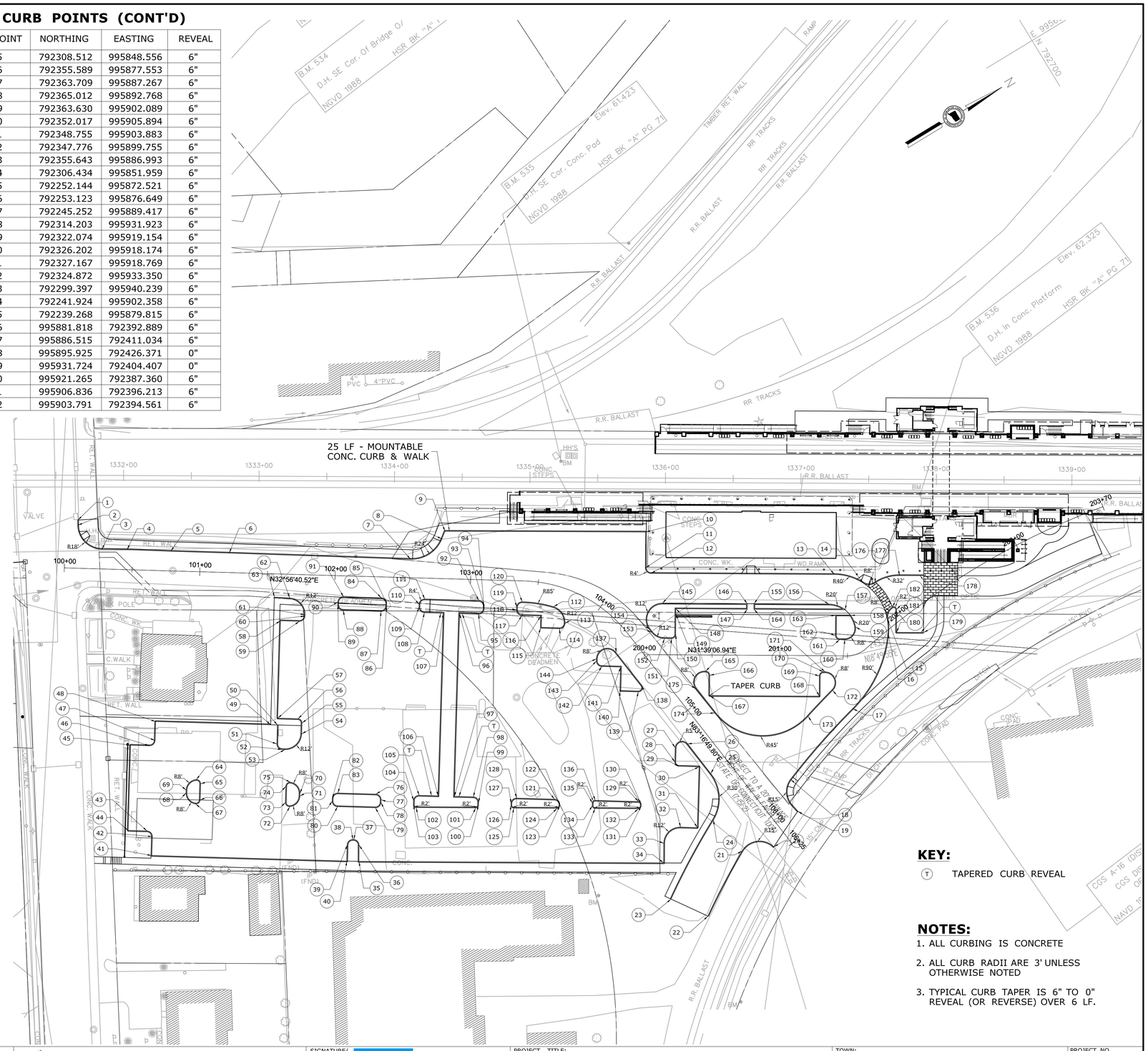
CURB POINT	NORTHING	EASTING	REVEAL
1	791914.226	995536.295	6"
2	791912.296	995539.555	6"
3	791918.257	995563.997	6"
4	791934.006	995573.822	6"
5	791960.837	995591.616	6"
6	791997.055	995615.195	6"
7	792109.057	995688.697	6"
8	792136.608	995687.844	6"
9	792141.462	995684.211	6"
10	792267.734	995761.685	6"
11	792253.812	995784.269	6"
12	792255.118	995789.773	6"
13	792370.396	995860.836	6"
14	792385.349	995877.336	6"
15	792386.844	995908.971	6"
16	792381.539	995918.706	6"
17	792330.499	995952.564	6"
18	792264.215	995973.350	6"
19	792255.984	995996.509	6"
20	792227.743	996009.553	6"
21	792206.136	995999.945	6"
22	792159.603	996027.876	6"
23	792142.870	996002.976	6"
24	792199.938	995969.335	6"
25	792216.048	995939.127	6"
26	792212.772	995911.321	6"
27	792203.610	995909.187	6"
28	792197.896	995918.005	6"
29	792198.782	995922.154	6"
30	792211.370	995930.311	6"
31	792186.898	995968.075	6"
32	792176.450	995961.304	6"
33	792159.704	995965.086	6"
34	792152.125	995977.403	6"
35	792960.496	995859.491	6"
36	791966.836	995849.188	6"
37	791965.604	995843.735	6"
38	791965.041	995843.370	6"
39	791959.509	995844.551	6"
40	791952.983	995854.622	6"
41	791832.138	995776.311	6"
42	791839.752	995764.562	6"
43	791838.570	995759.030	6"
44	791826.822	995751.416	6"
45	791861.083	995698.547	6"
46	791872.832	995706.160	6"
47	791878.364	995704.979	6"
48	791885.977	995693.230	6"
49	791957.309	995739.455	6"
50	791961.505	995742.175	6"
51	791953.891	995753.923	6"
52	791955.073	995759.455	6"
53	791956.751	995760.543	6"
54	791973.347	995756.999	6"
55	791977.698	995750.285	6"
56	791976.812	995746.136	6"
57	791964.224	995737.979	6"
58	792003.380	995677.556	6"
59	792015.128	995685.170	6"
60	792020.661	995683.988	6"
61	792021.191	995683.170	6"
62	792017.923	995666.759	6"
63	792008.583	995660.332	0"
64	791889.298	995745.477	6"
65	791890.444	995749.777	6"
66	791883.945	995759.805	6"
67	791879.552	995760.516	6"
68	791877.839	995749.920	6"
69	791878.927	995748.242	6"
70	791949.419	995793.923	6"
71	791948.331	995795.602	6"
72	791937.961	995798.366	6"
73	791936.814	995794.066	6"
74	791943.313	995784.038	6"
75	791947.706	995783.328	6"
76	791996.958	995823.538	6"
77	791998.139	995829.071	6"

CURB POINTS (CONT'D)

CURB POINT	NORTHING	EASTING	REVEAL
78	791997.052	995830.749	6"
79	791991.520	995831.930	6"
80	791968.022	995816.703	6"
81	791966.841	995811.171	6"
82	791967.928	995809.493	6"
83	791973.460	995808.311	6"
84	792075.813	995701.855	6"
85	792076.994	995707.387	6"
86	792075.907	995709.065	6"
87	792070.375	995710.247	6"
88	792046.877	995695.020	6"
89	792045.696	995689.488	6"
90	792046.783	995687.809	6"
91	792052.315	995686.628	6"
92	792136.235	995741.010	6"
93	792137.417	995746.543	6"
94	792136.329	995748.221	6"
95	792130.797	995749.402	6"
96	792119.048	995741.789	6"
97	792045.631	995855.080	6"
98	792057.380	995862.694	6"
99	792058.562	995868.226	6"
100	792057.474	995869.904	6"
101	792054.748	995870.520	6"
102	792017.263	995847.455	6"
103	792016.633	995844.664	6"
104	792018.280	995842.122	6"
105	792023.812	995840.941	6"
106	792035.561	995848.555	6"
107	792108.978	995735.263	6"
108	792097.229	995727.649	6"
109	792096.047	995722.117	6"
110	792097.135	995720.439	6"
111	792102.667	995719.257	6"
112	792180.898	995773.477	6"
113	792181.786	995788.403	6"
114	792176.254	995789.585	6"
115	792164.505	995781.971	6"
116	792169.400	995774.419	6"
117	792157.651	995766.805	6"
118	792156.470	995761.273	6"
119	792157.555	995759.599	6"
120	792163.049	995758.393	6"
121	792107.732	995895.324	6"
122	792108.913	995900.856	6"
123	792108.589	995901.356	6"
124	792105.863	995901.972	6"
125	792078.601	995885.197	6"
126	792077.971	995882.406	6"
127	792078.702	995881.278	6"
128	792084.234	995880.097	6"
129	792159.762	995929.041	6"
130	792160.353	995931.807	6"
131	792159.704	995932.808	6"
132	792156.978	995933.423	6"
133	792129.717	995916.649	6"
134	792129.086	995913.858	6"
135	792130.142	995912.229	6"
136	792132.908	995911.639	6"
137	792202.746	995826.226	6"
138	792206.355	995856.858	6"
139	792201.745	995859.726	6"
140	792190.385	995852.365	6"
141	792200.174	995837.259	6"
142	792188.425	995829.646	6"
143	792187.244	995824.114	6"
144	792188.088	995822.811	6"
145	792250.988	995813.071	6"
146	792304.256	995845.933	6"
147	792302.177	995849.338	6"
148	792257.294	995821.667	6"
149	792255.195	995825.072	6"
150	792247.328	995837.834	6"
151	792243.200	995838.813	6"
152	792238.692	995836.034	6"
153	792233.071	995827.224	6"
154	792232.773	995824.690	6"

CURB POINTS (CONT'D)

CURB POINT	NORTHING	EASTING	REVEAL
155	792308.512	995848.556	6"
156	792355.589	995877.553	6"
157	792363.709	995887.267	6"
158	792365.012	995892.768	6"
159	792363.630	995902.089	6"
160	792352.017	995905.894	6"
161	792348.755	995903.883	6"
162	792347.776	995899.755	6"
163	792355.643	995886.993	6"
164	792306.434	995851.959	6"
165	792252.144	995872.521	6"
166	792253.123	995876.649	6"
167	792245.252	995889.417	6"
168	792314.203	995931.923	6"
169	792322.074	995919.154	6"
170	792326.202	995918.174	6"
171	792327.167	995918.769	6"
172	792324.872	995933.350	6"
173	792299.397	995940.239	6"
174	792241.924	995902.358	6"
175	792239.268	995879.815	6"
176	995881.818	792392.889	6"
177	995886.515	792411.034	6"
178	995895.925	792426.371	0"
179	995931.724	792404.407	0"
180	995921.265	792387.360	6"
181	995906.836	792396.213	6"
182	995903.791	792394.561	6"



KEY:

(T) TAPERED CURB REVEAL

NOTES:

1. ALL CURBING IS CONCRETE
2. ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED
3. TYPICAL CURB TAPER IS 6" TO 0" REVEAL (OR REVERSE) OVER 6 LF.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **J. CORBETT**

CHECKED BY: **A. SARDILLI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSP...CURB..TIE..PLAN..002.dgn

SIGNATURE/BLOCK:

Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT
ALAN WHITFORD
LICENSED
PROFESSIONAL ENGINEER

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **CURB TIE PLAN**

PROJECT NO. **170-3155**

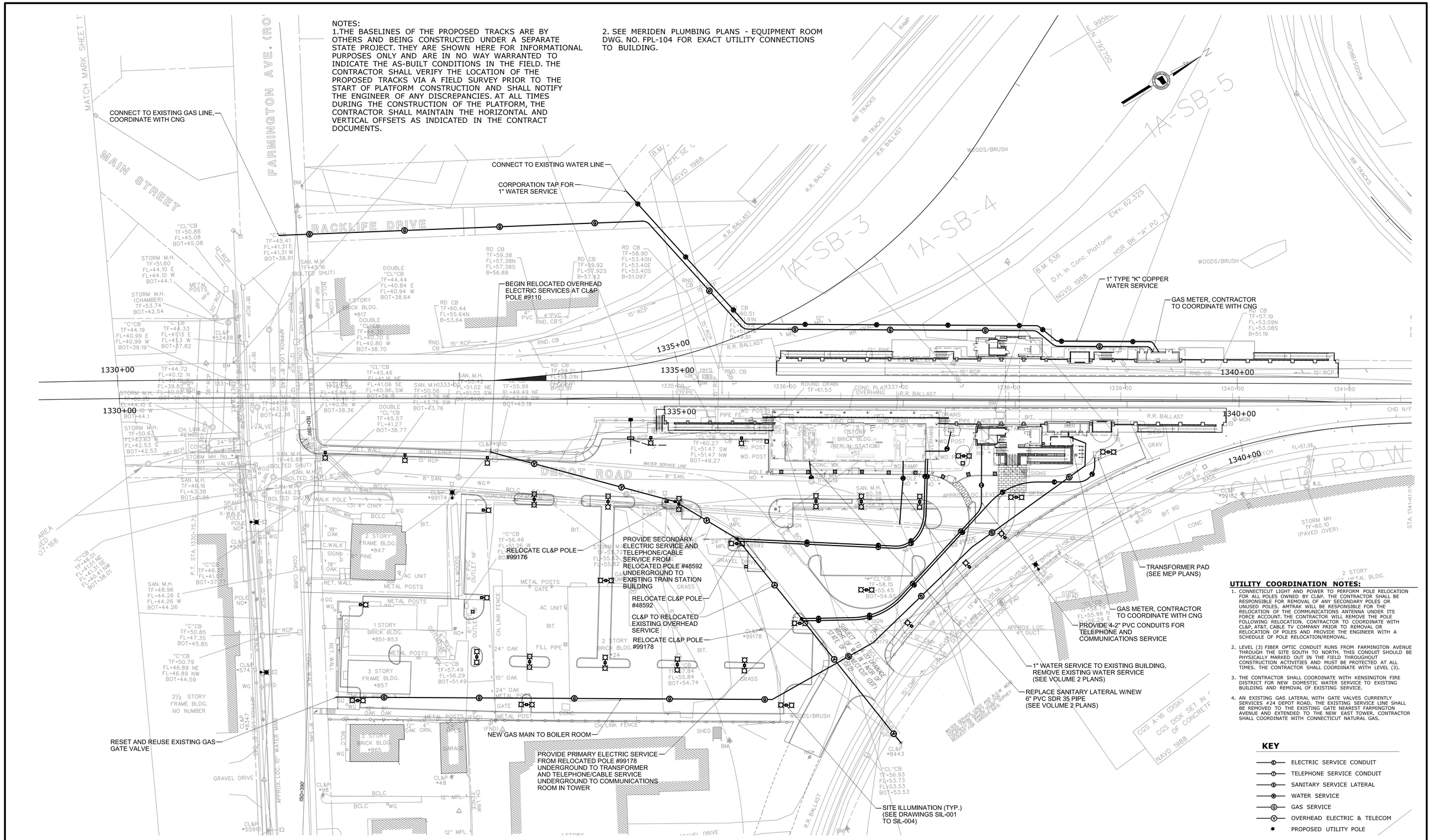
DRAWING NO. **CIV-002**

SHEET NO. **01.03.011**

NOTES:

1. THE BASELINES OF THE PROPOSED TRACKS ARE BY OTHERS AND BEING CONSTRUCTED UNDER A SEPARATE STATE PROJECT. THEY ARE SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY AND ARE IN NO WAY WARRANTED TO INDICATE THE AS-BUILT CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED TRACKS VIA A FIELD SURVEY PRIOR TO THE START OF PLATFORM CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. AT ALL TIMES DURING THE CONSTRUCTION OF THE PLATFORM, THE CONTRACTOR SHALL MAINTAIN THE HORIZONTAL AND VERTICAL OFFSETS AS INDICATED IN THE CONTRACT DOCUMENTS.

2. SEE MERIDEN PLUMBING PLANS - EQUIPMENT ROOM DWG. NO. FPL-104 FOR EXACT UTILITY CONNECTIONS TO BUILDING.



UTILITY COORDINATION NOTES:

1. CONNECTICUT LIGHT AND POWER TO PERFORM POLE RELOCATION FOR ALL POLES OWNED BY CL&P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SECONDARY POLES OR UNUSED POLES. AMTRAK WILL BE RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATIONS ANTENNA UNDER ITS FORCE ACCOUNT. THE CONTRACTOR WILL REMOVE THE POLE FOLLOWING RELOCATION. CONTRACTOR TO COORDINATE WITH CL&P, AT&T, CABLE TV COMPANY PRIOR TO REMOVAL OR RELOCATION OF POLES AND PROVIDE THE ENGINEER WITH A SCHEDULE OF POLE RELOCATION/REMOVAL.
2. LEVEL (3) FIBER OPTIC CONDUIT RUNS FROM FARMINGTON AVENUE THROUGH THE SITE SOUTH TO NORTH; THIS CONDUIT SHOULD BE PHYSICALLY MARKED OUT IN THE FIELD THROUGHOUT CONSTRUCTION ACTIVITIES AND MUST BE PROTECTED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH LEVEL (3).
3. THE CONTRACTOR SHALL COORDINATE WITH KENSINGTON FIRE DISTRICT FOR NEW DOMESTIC WATER SERVICE TO EXISTING BUILDING AND REMOVAL OF EXISTING SERVICE.
4. AN EXISTING GAS LATERAL WITH GATE VALVES CURRENTLY SERVICES #24 DEPOT ROAD. THE EXISTING SERVICE LINE SHALL BE REMOVED TO THE EXISTING GATE NEAREST FARMINGTON AVENUE AND EXTENT TO THE NEW EAST TOWER. CONTRACTOR SHALL COORDINATE WITH CONNECTICUT NATURAL GAS.

KEY

- ELECTRIC SERVICE CONDUIT
- TELEPHONE SERVICE CONDUIT
- SANITARY SERVICE LATERAL
- WATER SERVICE
- GAS SERVICE
- OVERHEAD ELECTRIC & TELECOM
- PROPOSED UTILITY POLE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **P. BRAND**
CHECKED BY: **A. SARDILLI**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_UTE_UTILITY_001.dgn

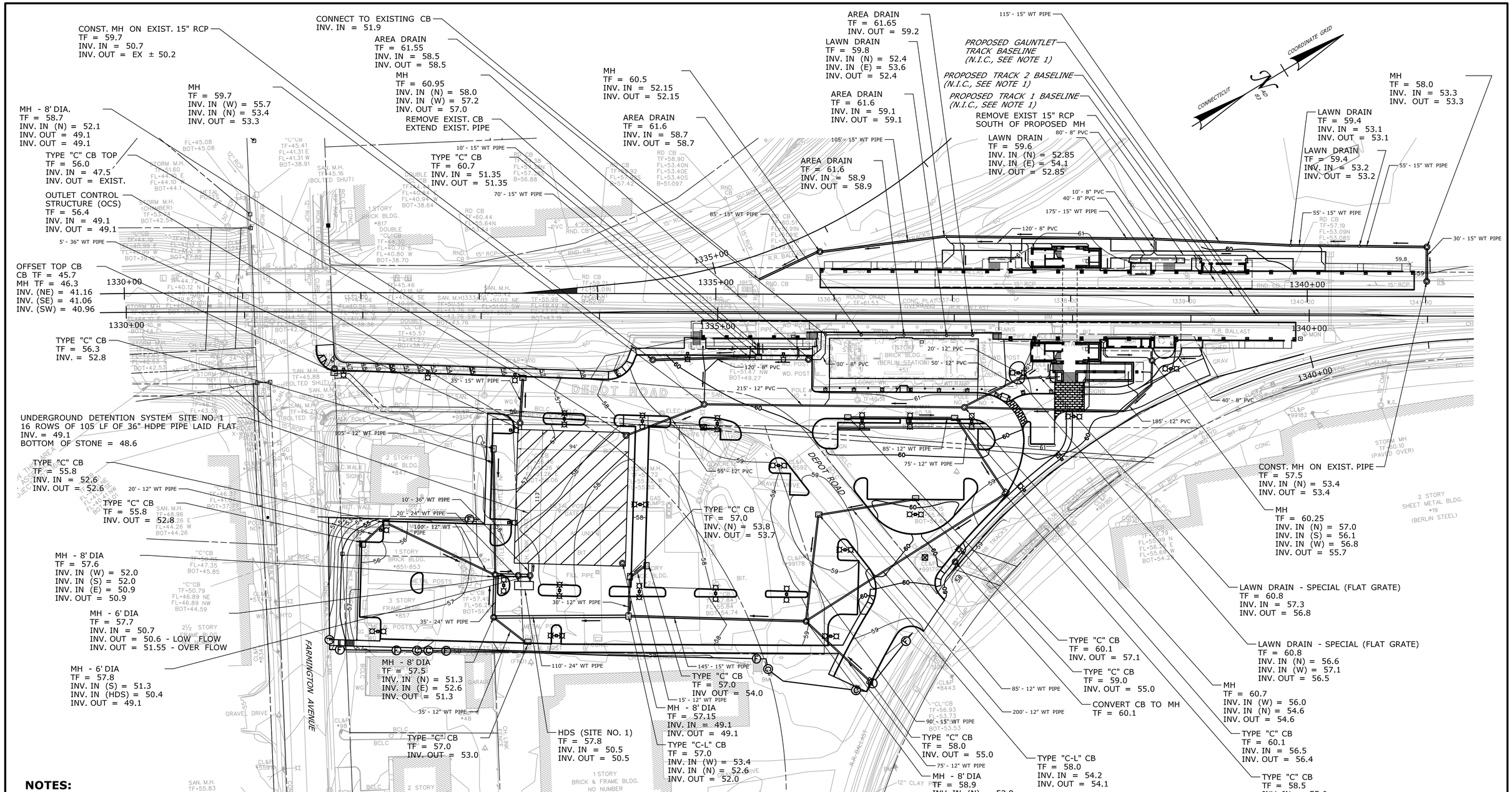
SIGNATURE/BLOCK:
Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **UTILITY PLAN**

PROJECT NO. **170-3155**
DRAWING NO. **UTL-001**
SHEET NO. **01.03.012**



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2. FOR MORE DETAILED GRADING AND DRAINAGE INFORMATION NOT INCLUDED ON THIS PLAN, PLEASE REFER TO SHEETS DRG-002 THROUGH DRG-006.
3. ENTIRE STORMWATER SYSTEM TO BE WATERTIGHT, SEALED, AND GASKETED INCLUDING PIPES, STRUCTURES, AND UNDERGROUND DETENTION SYSTEMS.
4. ALL WATERTIGHT (WT) PIPE SHALL BE ADS N-12 WT IB WATERTIGHT PIPE OR APPROVED EQUAL. HDPE WITH RECYCLED CONTENT (GREEN WRAPPER) NOT ALLOWED.
5. ALL PVC PIPE SHALL BE WATERTIGHT, SEALED, AND GASKETED.
6. ALL MANHOLE, CATCH BASIN, LAWN DRAIN AND OUTLET CONTROL STRUCTURE EXTERIORS SHALL BE DAMP PROOF AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
7. ALL PIPE CONNECTIONS TO MANHOLE, CATCH BASIN, LAWN DRAIN AND OUTLET CONTROL STRUCTURES SHALL HAVE FLEXIBLE WATERTIGHT GASKETS OR SLEEVES. SEE SPECIAL PROVISIONS FOR MORE INFORMATION.
8. TF ELEVATATIONS ARE TO THE PROPOSED PAVEMENT SURFACE AND DO NOT ACCOUNT FOR ANY DEDUCTION AS STATED IN THE STANDARD DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**
CHECKED BY: **P. VITALIANO**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_GRD.dgn

SIGNATURE/BLOCK:
STATE OF CONNECTICUT · STEPHEN C. DUFFY · No. 19323 · LICENSED PROFESSIONAL ENGINEER
VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

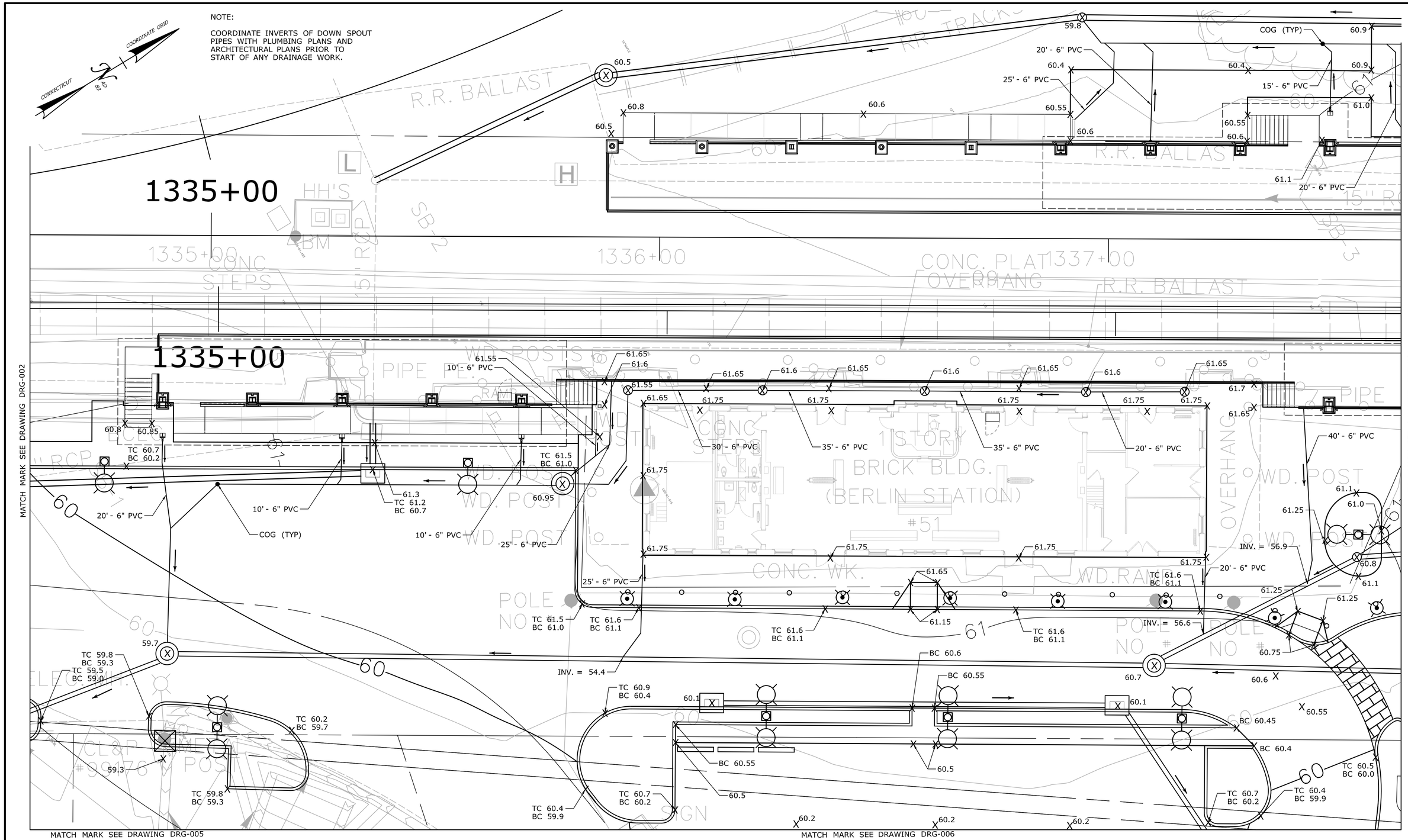
TOWN: **BERLIN**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO. **170-3155**
DRAWING NO. **DRG-001**
SHEET NO. **01.03.013**

NOTE:

COORDINATE INVERTS OF DOWN SPOUT PIPES WITH PLUMBING PLANS AND ARCHITECTURAL PLANS PRIOR TO START OF ANY DRAINAGE WORK.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**

CHECKED BY: **P. VITALIANO**

SCALE IN FEET 0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_GRD_03.dgn

SIGNATURE/BLOCK:

STATE OF CONNECTICUT STEPHEN T. VITALIANO No. 19323 LICENSED PROFESSIONAL ENGINEER

VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

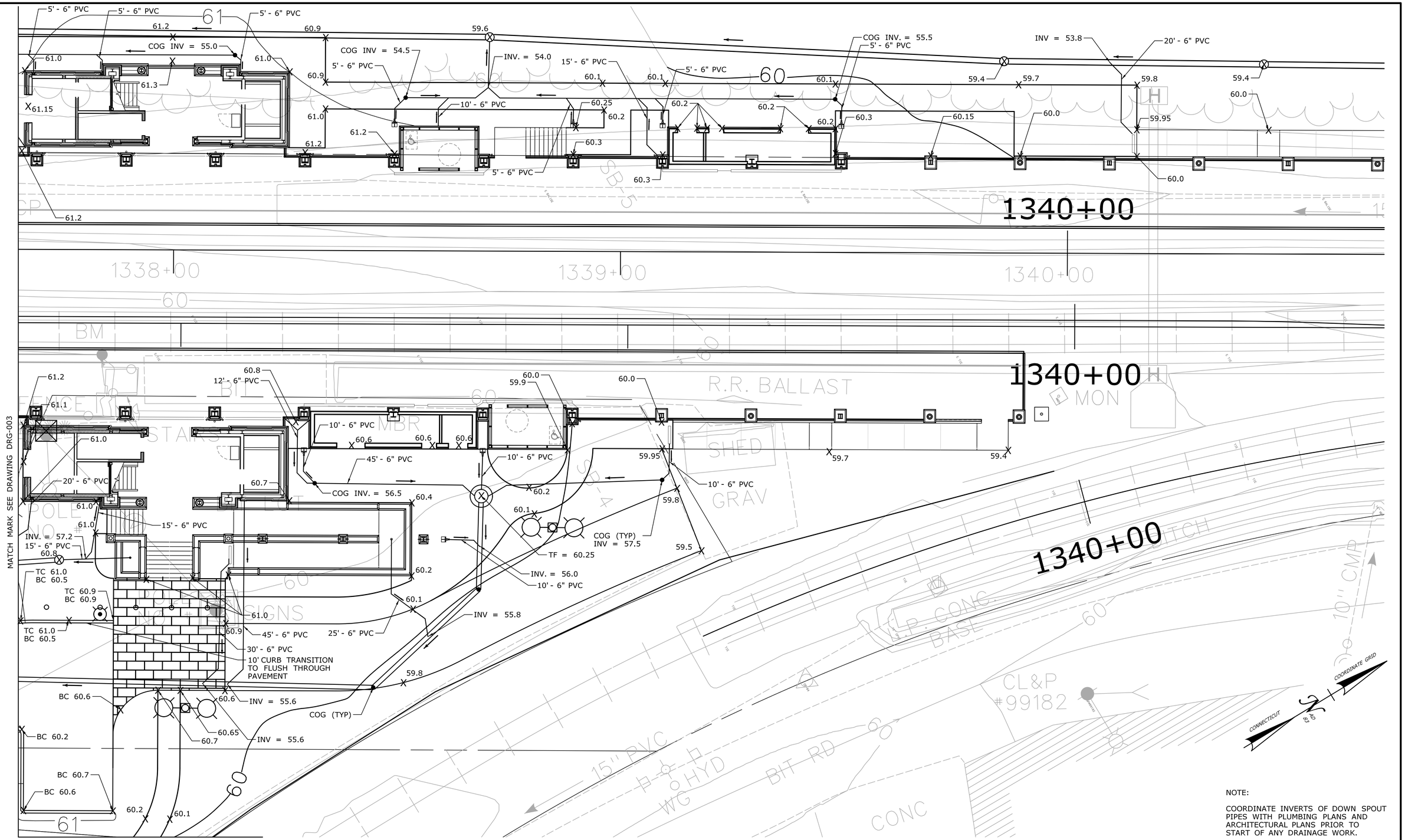
TOWN: **BERLIN**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO. **170-3155**

DRAWING NO. **DRG-003**

SHEET NO. **01.03.014**



NOTE:

COORDINATE INVERTS OF DOWN SPOUT PIPES WITH PLUMBING PLANS AND ARCHITECTURAL PLANS PRIOR TO START OF ANY DRAINAGE WORK.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**

CHECKED BY: **P. VITALIANO**

SCALE IN FEET 0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007..04..CSP..GRD..04.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT STEPHEN V. SCHELL No. 19323 LICENSED PROFESSIONAL ENGINEER

VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

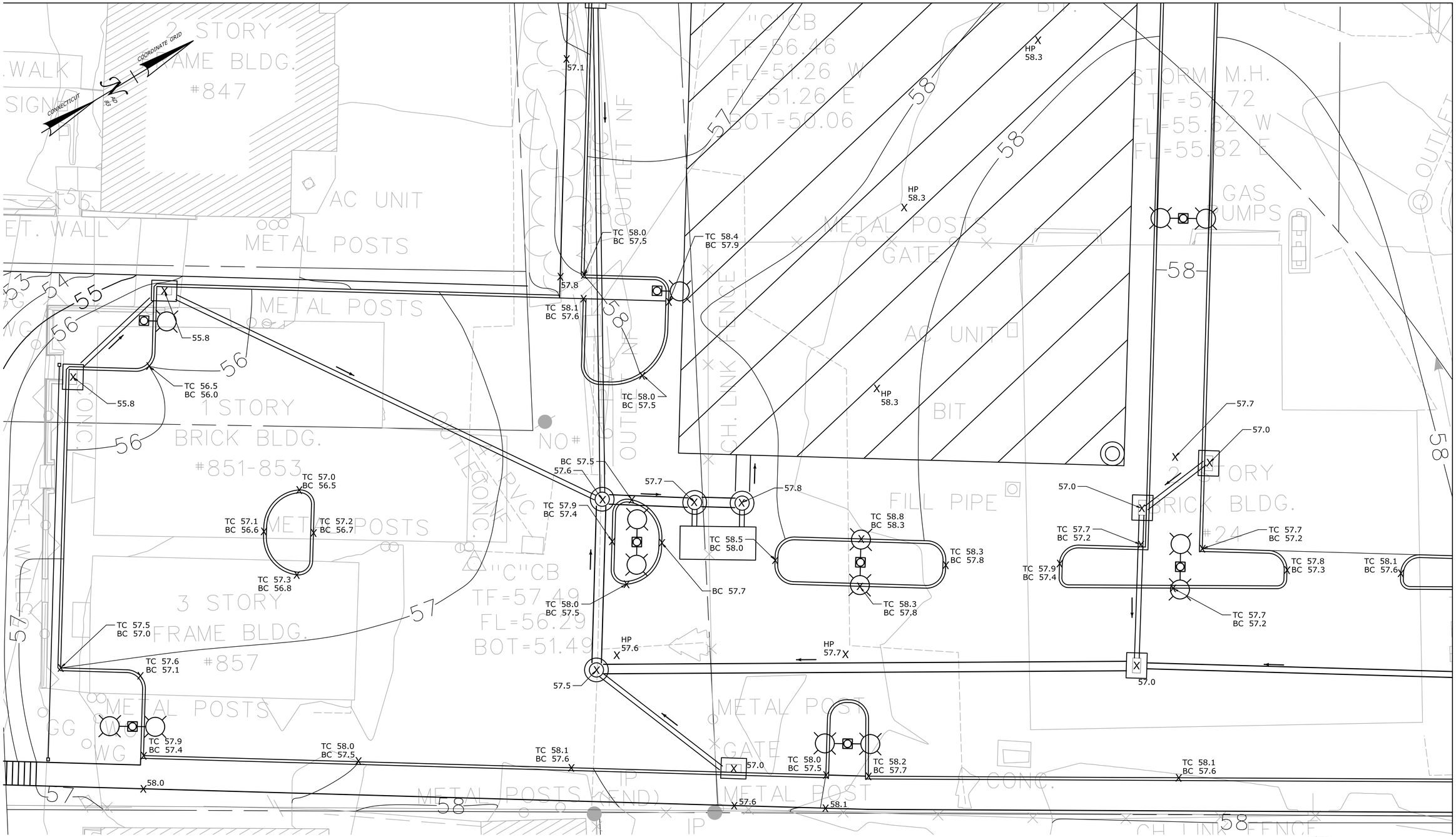
DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO. **170-3155**

DRAWING NO. **DRG-004**

SHEET NO. **01.03.015**

MATCH MARK SEE DRAWING DRG-002



MATCH MARK SEE DRAWING DRG-006

NOTE:

COORDINATE INVERTS OF DOWN SPOUT PIPES WITH PLUMBING PLANS AND ARCHITECTURAL PLANS PRIOR TO START OF ANY DRAINAGE WORK.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/26/2014

DESIGNER/DRAFTER: **R. SZWELICKI**

CHECKED BY: **P. VITALIANO**

SCALE IN FEET

0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSP...GRD..05.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · STEPHEN J. DONELL · No. 19323 · LICENSED PROFESSIONAL ENGINEER

VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO. **170-3155**

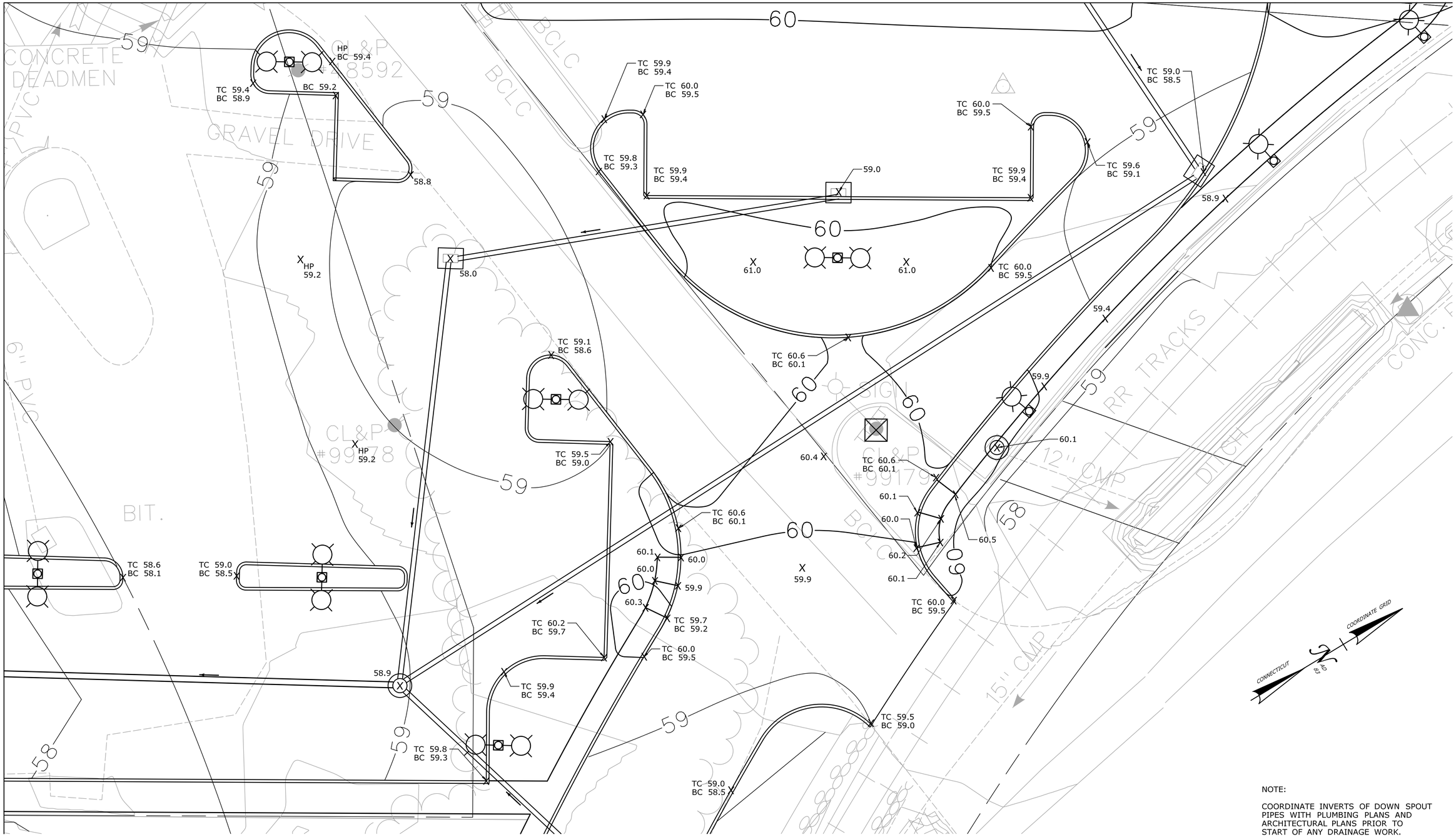
DRAWING NO. **DRG-005**

SHEET NO. **01.03.016**

MATCH MARK SEE DRAWING DRG-003

MATCH MARK SEE DRAWING DRG-004

MATCH MARK SEE DRAWING DRG-005



NOTE:

COORDINATE INVERTS OF DOWN SPOUT PIPES WITH PLUMBING PLANS AND ARCHITECTURAL PLANS PRIOR TO START OF ANY DRAINAGE WORK.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**

CHECKED BY: **P. VITALIANO**

SCALE IN FEET

0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007__04_CSP__GRD_06.dgn

SIGNATURE/BLOCK:

STATE OF CONNECTICUT STEPHEN J. SPERRY No. 19323 LICENSED PROFESSIONAL ENGINEER

VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

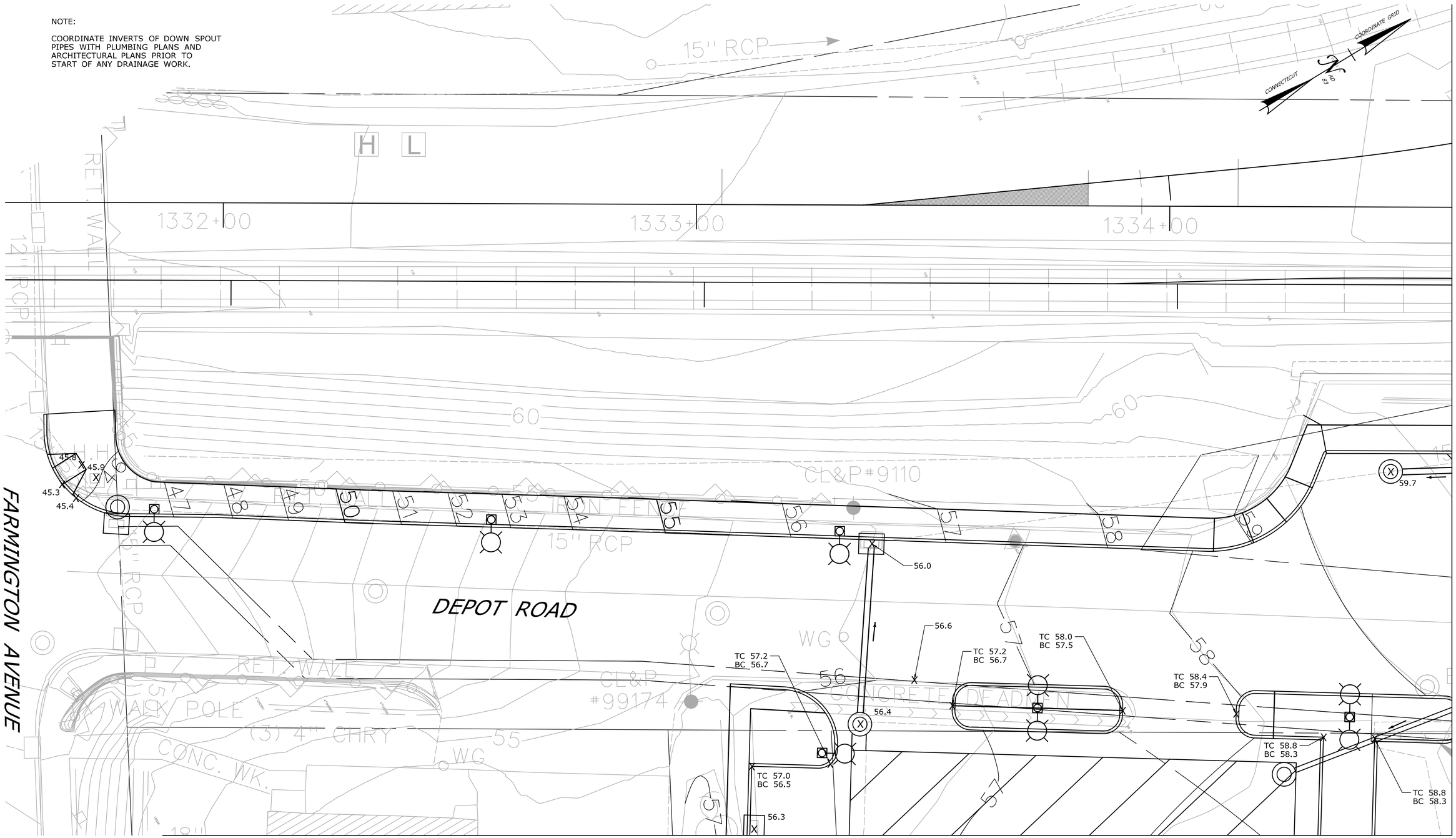
PROJECT NO. **170-3155**

DRAWING NO. **DRG-006**

SHEET NO. **01.03.017**

NOTE:

COORDINATE INVERTS OF DOWN SPOUT PIPES WITH PLUMBING PLANS AND ARCHITECTURAL PLANS PRIOR TO START OF ANY DRAINAGE WORK.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**

CHECKED BY: **P. VITALIANO**

SCALE IN FEET

0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSP...GRD..02.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · STEPHEN J. DONAHUE · No. 19323 · LICENSED PROFESSIONAL ENGINEER

VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

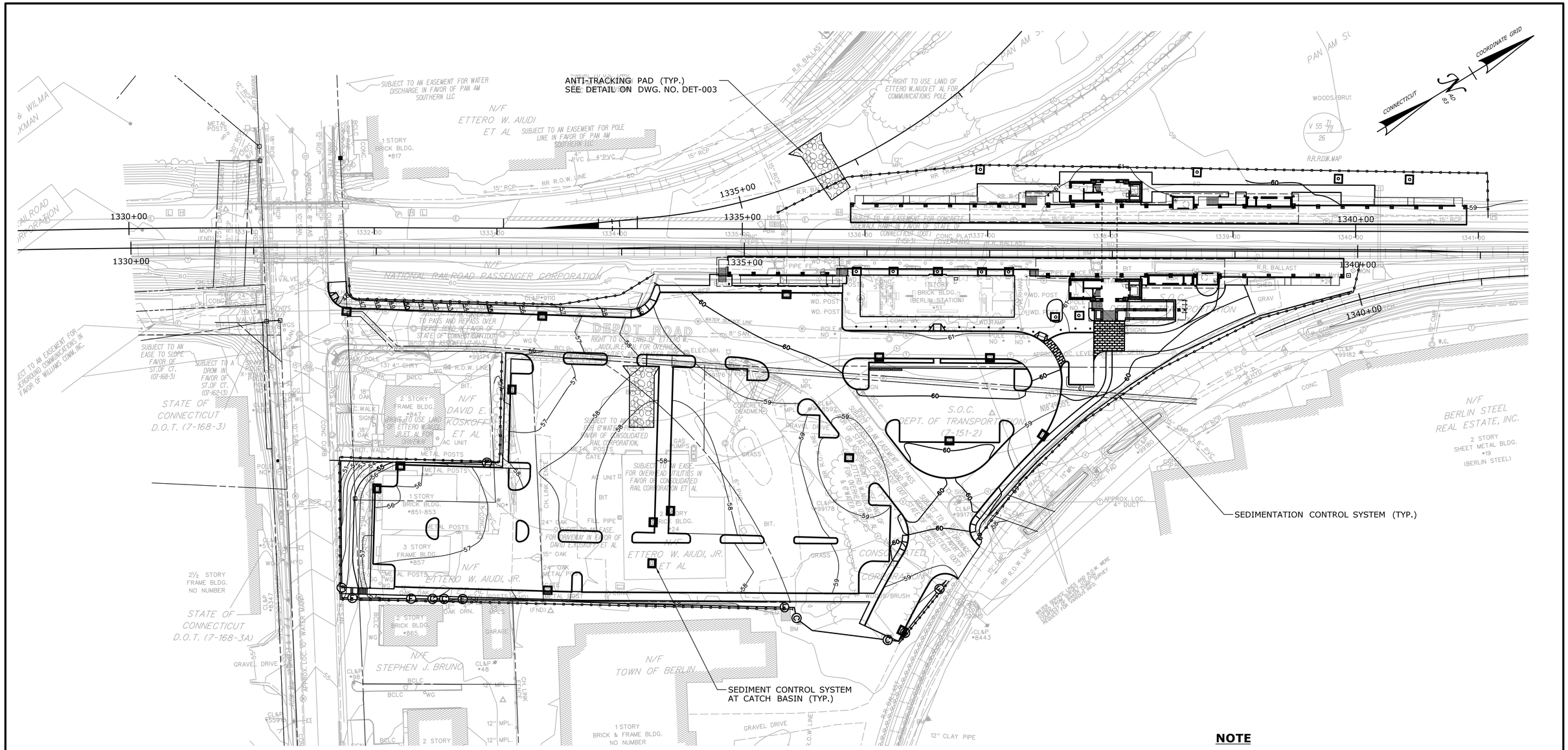
TOWN: **BERLIN**

DRAWING TITLE: **GRADING AND DRAINAGE PLAN**

PROJECT NO. **170-3155**

DRAWING NO. **DRG-002**

SHEET NO. **01.03.018**



NOTE

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PLACE SEDIMENT CONTROL SYSTEMS (SILT SACKS) AT EXISTING AND NEW CATCH BASINS DURING CONSTRUCTION.

LEGEND

- SEDIMENT CONTROL SYSTEM AT CATCH BASIN / DRAINAGE STRUCTURE
- SEDIMENTATION CONTROL SYSTEM
- ANTI-TRACKING PAD

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**
CHECKED BY: **P. VITALIANO**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_SED.dgn

SIGNATURE/BLOCK:
STATE OF CONNECTICUT STEPHEN J. KLEIN No. 19323 LICENSED PROFESSIONAL ENGINEER
VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:
NEW HAVEN - HARTFORD
SPRINGFIELD
RAIL CORRIDOR

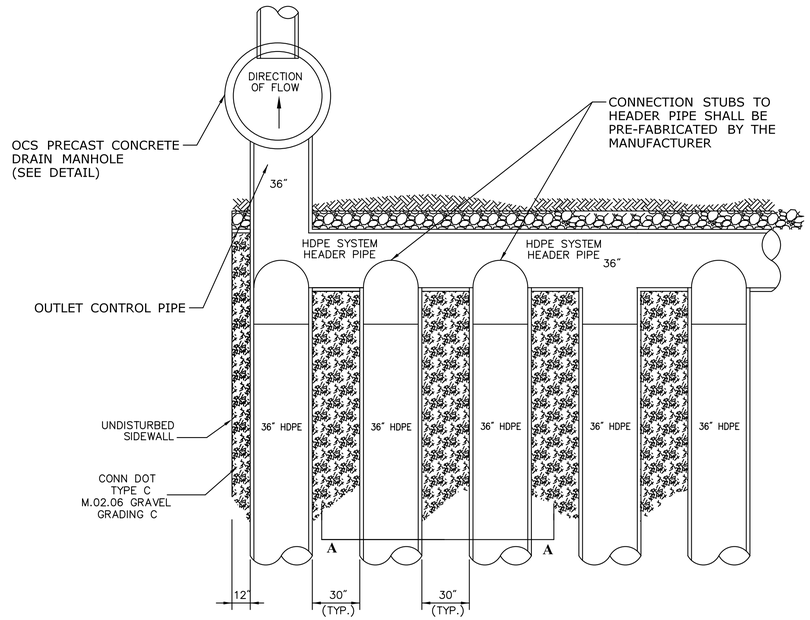
TOWN: **BERLIN**

DRAWING TITLE: **SEDIMENT CONTROL PLAN**

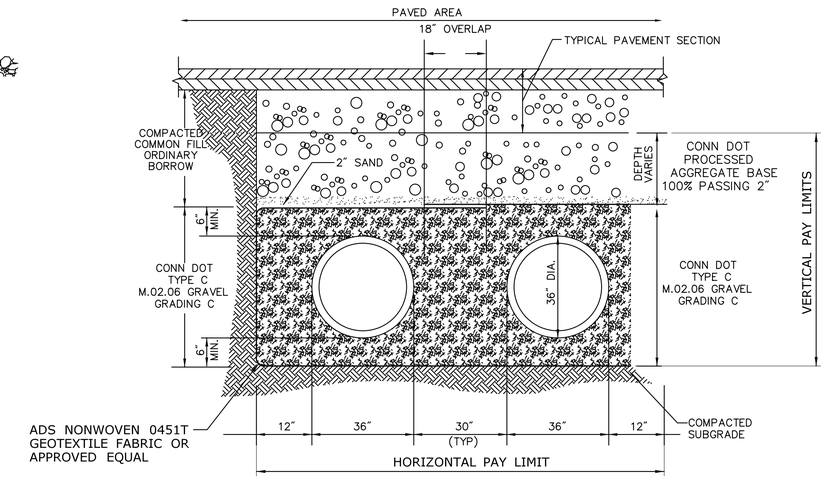
PROJECT NO. **170-3155**
DRAWING NO. **SED-001**
SHEET NO. **01.03.019**

NOTES:

1. UNDERGROUND DETENTION SYSTEM NO. 1: 16 ROWS OF 105' LONG 36" DIA. HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR; INV. = 49.10
2. UNDERGROUND DETENTION SYSTEM TO BE MANUFACTURED BY ADS USING N-12 WT IB WATERTIGHT PIPE OR APPROVED EQUAL. HDPE WITH RECYCLED CONTENT (GREEN WRAPPER) NOT ALLOWED.
3. ALL MANHOLE, CATCH BASIN, LAWN DRAIN, AND OUTLET CONTROL STRUCTURE EXTERIORS SHALL BE DAMP PROOFED AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
4. ALL PIPE CONNECTIONS TO MANHOLE, CATCH BASIN, LAWN DRAIN, AND OUTLET CONTROL STRUCTURES SHALL HAVE FLEXIBLE WATERTIGHT GASKETS OR SLEEVES. SEE SPECIAL PROVISIONS FOR MORE INFORMATION.

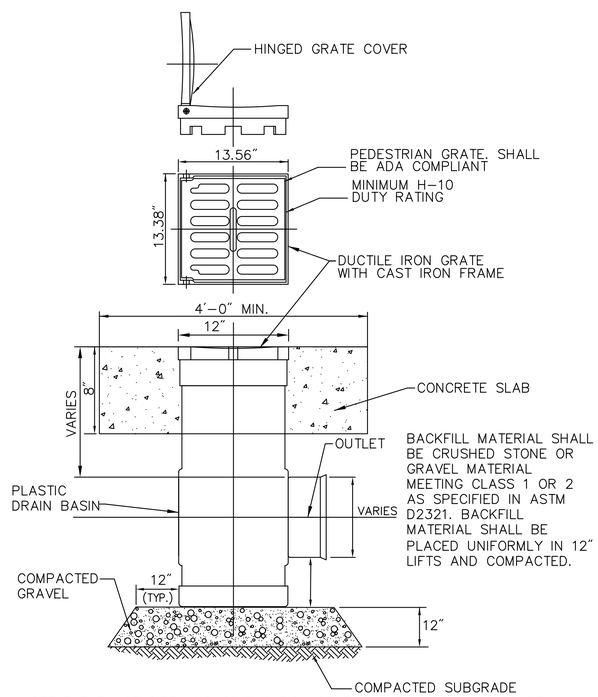


Plan View



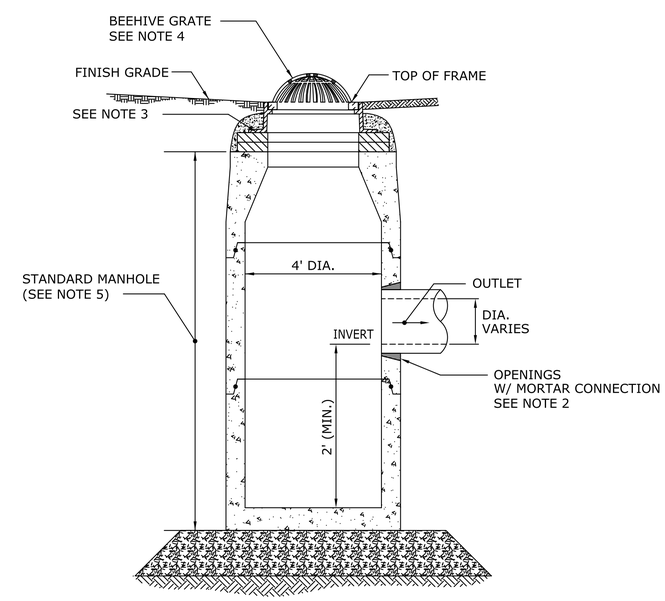
Section A-A

UNDERGROUND DETENTION SYSTEM NO. 1



NOTE: THE EXACT SIZE AND ORIENTATION OF EACH AREA DRAIN IS TO BE PROVIDED BY THE MANUFACTURER BASED ON DRAINAGE PIPE SIZE AND ORIENTATION. AREA DRAINS SHALL BE BY NYOPLAST OR APPROVED EQUAL.

AREA DRAIN



Section

LAWN DRAIN

NOTES:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS. ALL PIPE CONNECTIONS TO LAWN DRAINS SHALL HAVE FLEXIBLE WATERTIGHT GASKETS OR SLEEVES.
3. BEEHIVE FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (4 BRICK COURSES MAXIMUM).
4. BEEHIVE FRAME AND GRATE TO BE NEENAH FOUNDRY CATALOG NO. R-2560-EA OR APPROVED EQUAL. WHERE "LAWN DRAIN - SPECIAL (FLAT GRATE)" IS SPECIFIED ON GRADING AND DRAINAGE PLAN, FRAME AND GRATE TO BE NEENAH FOUNDRY CATALOG NO. R-2569 OR APPROVED EQUAL.
5. STRUCTURE WITHIN LIMITS SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNDOT STANDARD SHEET NO. HW-507_10 WITH THE EXCEPTION OF THE 2 FT DEEP SUMP AS SHOWN.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/26/2014

DESIGNER/DRAFTER: **R. SZWELICKI**
CHECKED BY: **P. VITALIANO**
N.T.S.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_MDS_01

SIGNATURE/BLOCK:
STATE OF CONNECTICUT · STEPHEN J. KAPELL · No. 19323 · LICENSED PROFESSIONAL ENGINEER

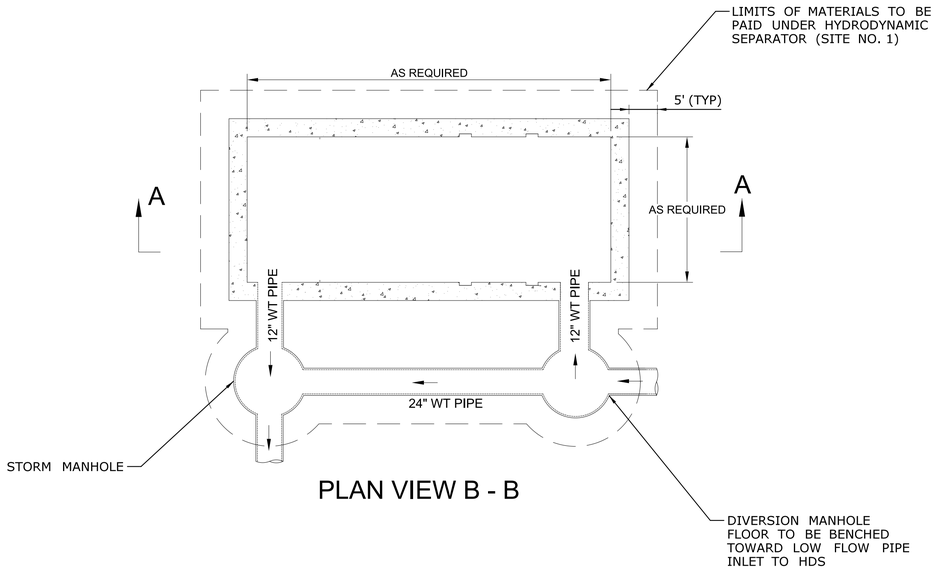
VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

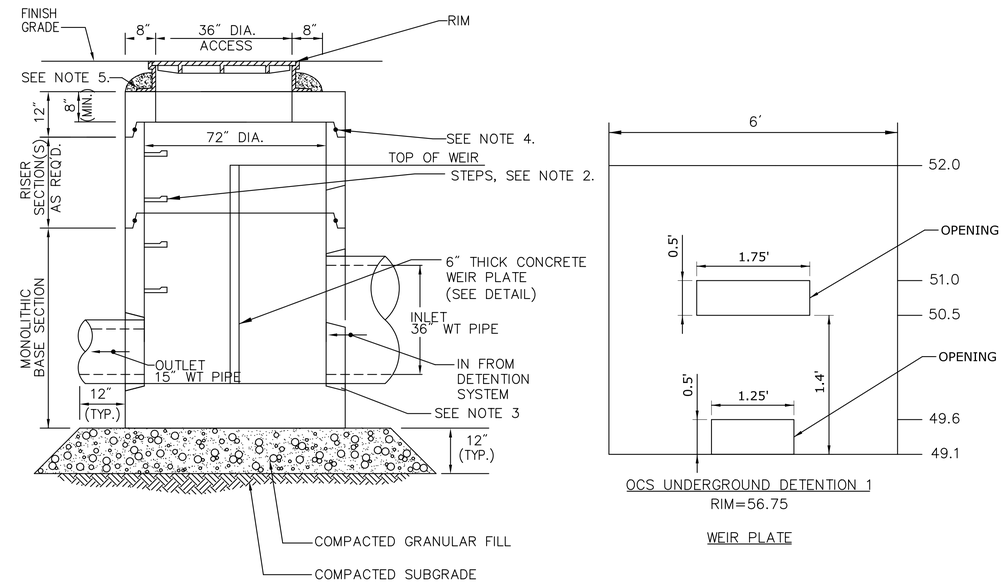
TOWN: **BERLIN**

DRAWING TITLE: **MISCELLANEOUS DETAILS**

PROJECT NO. **170-3155**
DRAWING NO. **DET-001**
SHEET NO. **01.03.020**



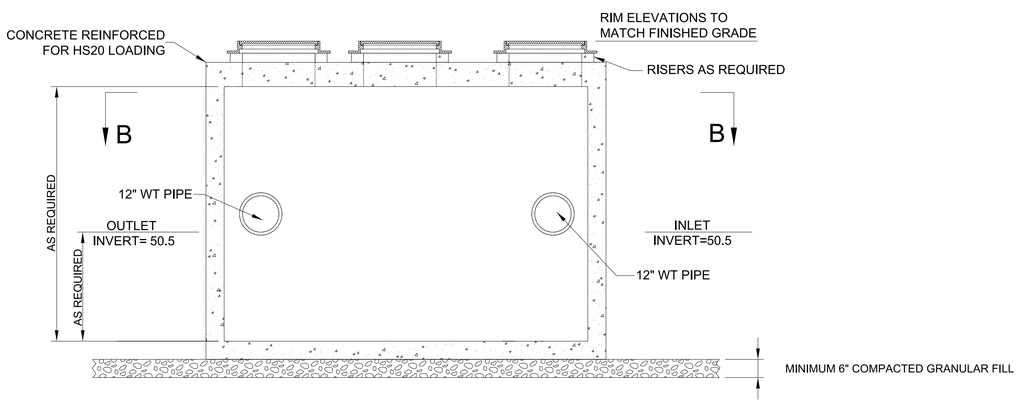
PLAN VIEW B - B



OUTLET CONTROL STRUCTURE (OCS)

NOTES:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS. ALL PIPE CONNECTIONS TO OCS SHALL HAVE FLEXIBLE WATERTIGHT GASKETS OR SLEEVES.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
6. OCS EXTERIORS SHALL BE DAMP PROOFED AS DETAILED IN THE STANDARD SPECIFICATIONS.



SECTION A - A

NOTES:
HYDRODYNAMIC SEPARATOR SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE HYDRODYNAMIC SEPARATOR SPECIAL PROVISION FOR DESIGN DATA AND APPROVED PRODUCTS AND MANUFACTURER INFORMATION.

HYDRODYNAMIC SEPARATOR (SITE NO. 1)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **R. SZWELICKI**
CHECKED BY: **P. VITALIANO**
N.T.S.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

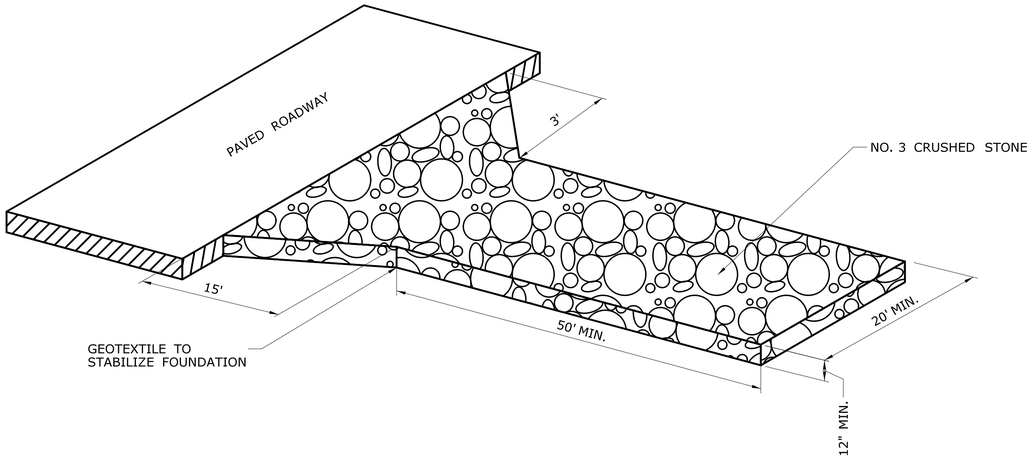
Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSP..MDS..02

SIGNATURE/ BLOCK:
STATE OF CONNECTICUT STEPHEN J. HEFFERNAN No. 19323 LICENSED PROFESSIONAL ENGINEER
VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**
DRAWING TITLE: **MISCELLANEOUS DETAILS**

PROJECT NO. **170-3155**
DRAWING NO. **DET-002**
SHEET NO. **01.03.021**



ANTI-TRACKING PAD

WEIGHT CHART

PRODUCT	APPROX. WEIGHT
CATCH BASIN	1,700 LBS
8" TOP SLAB	3,400 LBS
TRANSITION RISER	6,700 LBS
STD RISER	6,800 LBS
SUMP	4,900 LBS

TOP SLAB REINFORCING

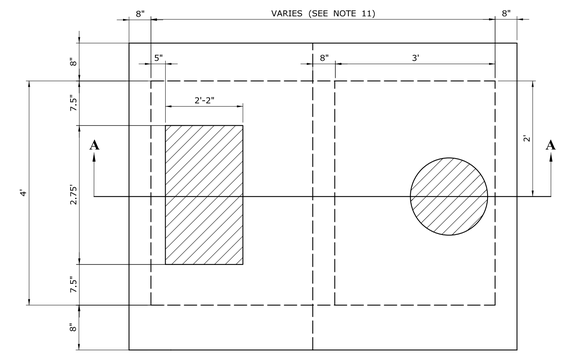
SHORT DIRECTION	#5 @ 6" O.C., 1½" COVER FROM BOT. OF SLAB
LONG DIRECTION	#4 @ 8" O.C.

OFFSET RISER REINFORCING

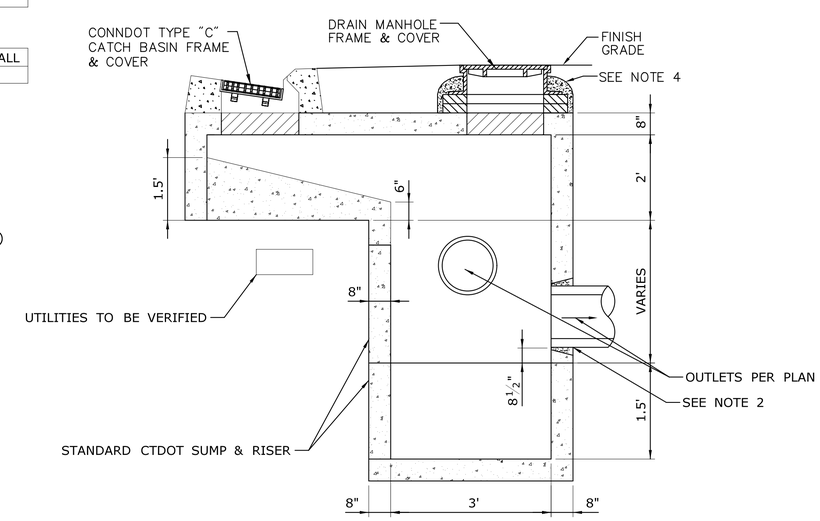
HORIZ. DIRECTION	#4 @ 12" O.C., 1½" COVER FROM O.S. OF WALL
VERT. DIRECTION	#4 @ 12" O.C.

NOTES:

1. SEE DRAINAGE PLANS FOR LOCATION OF OFFSET CATCH BASINS.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. STANDARD DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYP., 5 BRICK COURSES MAX.)
4. BARREL BLOCK AND MORTAR SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 18".
5. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
6. DESIGN LOAD - AASHTO H-20.
7. REINFORCING STEEL DEFORMED BARS TO LATEST ASTM SPECIFICATION A615 GRADE 60.
8. REINFORCING STEEL WELDED WIRE FABRIC TO LATEST ASTM SPECIFICATION A185.
9. CONCRETE COMPRESSIVE STRENGTH - 4000 PSA @ 28 DAYS SELF COMPACTING CONCRETE MIX.
10. METHOD OF MANUFACTURE: WET CAST
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS AND INSTALLING.
12. STRUCTURE EXTERIOR SHALL BE DAMP PROOFED AS DETAILED IN THE STANDARD SPECIFICATIONS.



Plan View



Section A-A

OFFSET CATCH BASIN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2014

DESIGNER/DRAFTER: **D. CIVITILLO**
CHECKED BY: **B. ANDERSON**
N.T.S.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA..CGR..CPS..0170-2296..007...04..CSP..MDS..03

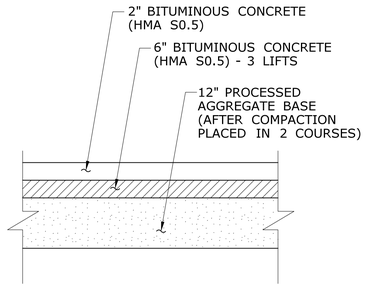
SIGNATURE/ BLOCK:
STATE OF CONNECTICUT · STEPHEN J. DONELL · No. 19323 · LICENSED PROFESSIONAL ENGINEER
VHB, INC.
100 GREAT MEADOW RD
SUITE 200
WETHERSFIELD, CT 06109
860.807.4300

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: **BERLIN**

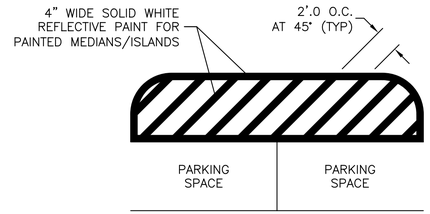
DRAWING TITLE: **MISCELLANEOUS DETAILS**

PROJECT NO. **170-3155**
DRAWING NO. **DET-003**
SHEET NO. **01.03.022**



TYPICAL HEAVY DUTY FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE IN MAIN DRIVE AISLE AND BUS DROPOFF

SCALE: N.T.S.

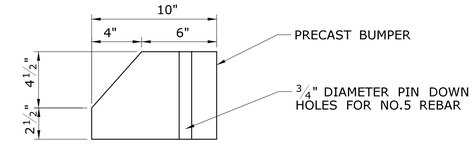


TYPICAL STRIPED ISLAND DETAIL

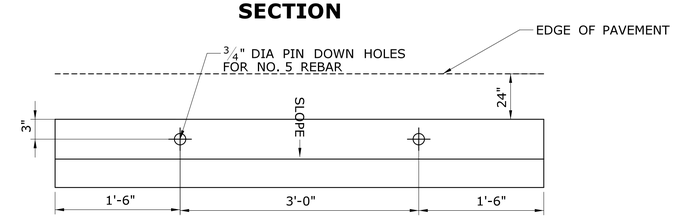
NOTE:

1. STRIPING SHALL CONSIST OF WHITE EPOXY RESIN PAINT PER CT DOT 816 SPECIFICATIONS.

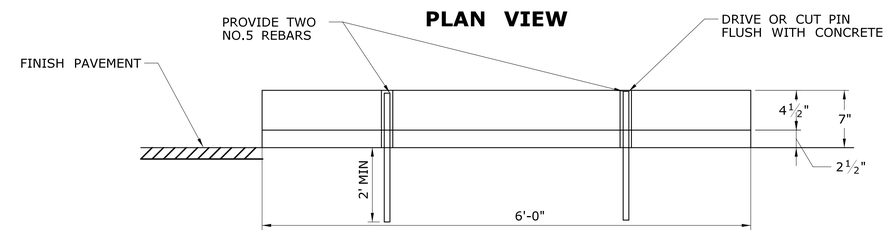
2. PAINTED MEDIAN/ISLAND DIMENSIONS ARE AS SHOWN ON THE SITE DEVELOPMENT PLANS



SECTION

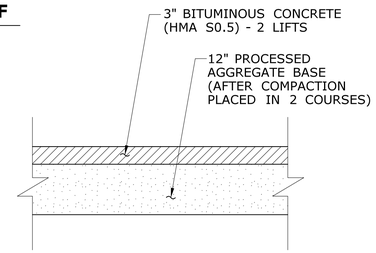


PLAN VIEW



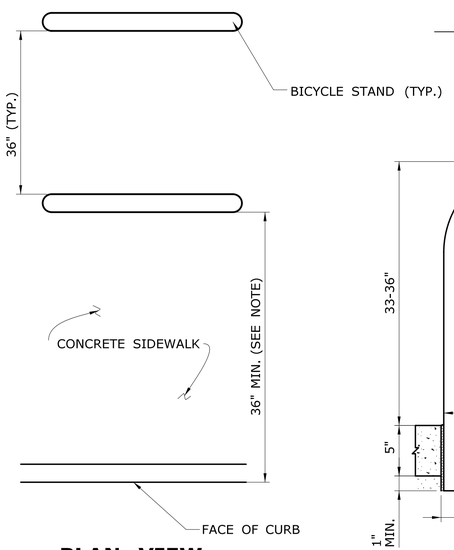
SLOPED SIDE ELEVATION

CONCRETE WHEEL STOP

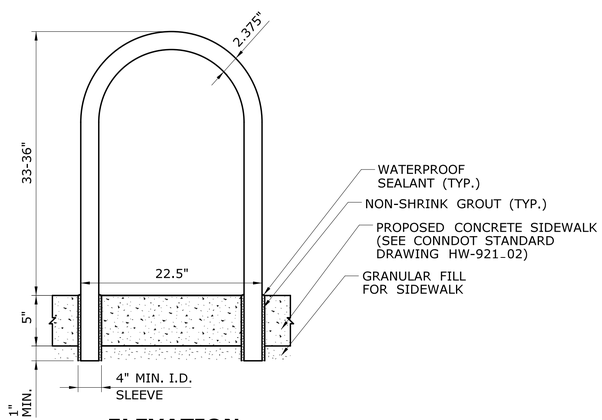


TYPICAL STANDARD DUTY FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE IN PARKING AREAS AND AISLES

SCALE: N.T.S.



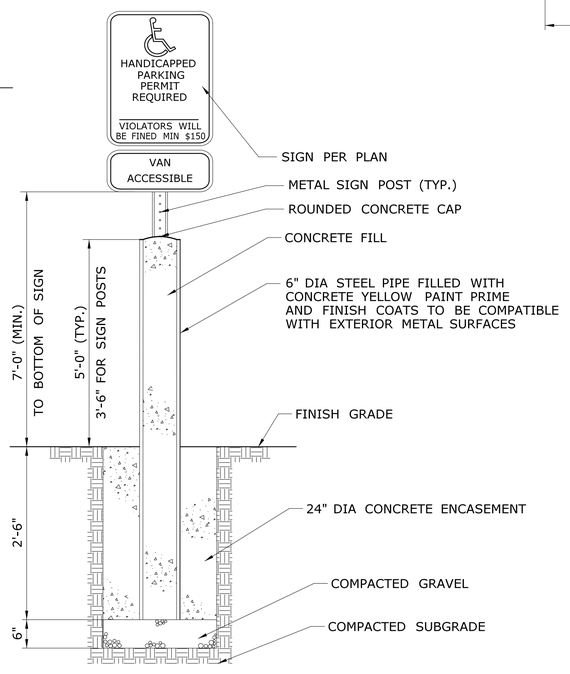
PLAN VIEW



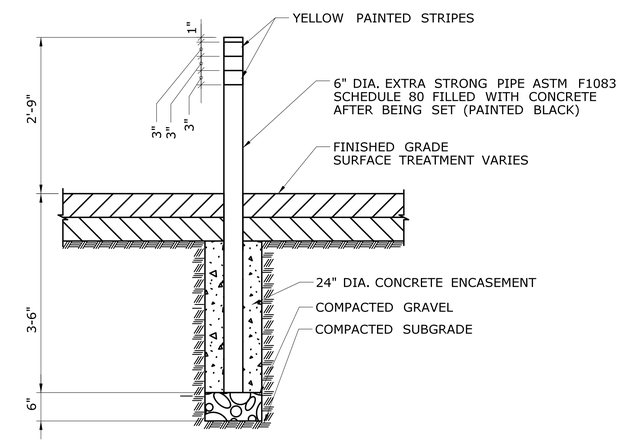
ELEVATION

BICYCLE STAND

NOTE:
THE MINIMUM PROVIDED DIMENSION IS ONLY FOR THE INSTALLATION CASE DEPICTED IN THE DETAIL. FOR OTHER CONFIGURATIONS AND WHERE STANDS ARE PROPOSED ADJECENT TO OTHER TREATMENTS, REFER TO THE CONSTRUCTION METHODS AS DETAILED IN THE STANDARD SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.



CONCRETE FILLED STEEL BOLLARD AND SIGN POST IN STEEL BOLLARD



STEEL BOLLARD

SCALE: NTS

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Plotted Date: 2/28/2014

DESIGNER/DRAFTER: **P.BRAND**
CHECKED BY: **A.SARDILLI**

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007__04_CSP_MDS_004.dgn

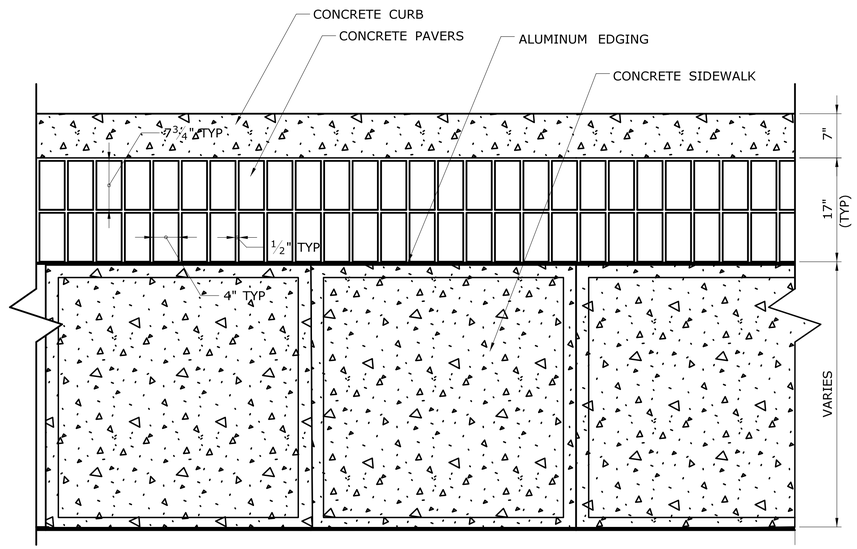
SIGNATURE/ BLOCK:
Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE:
NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

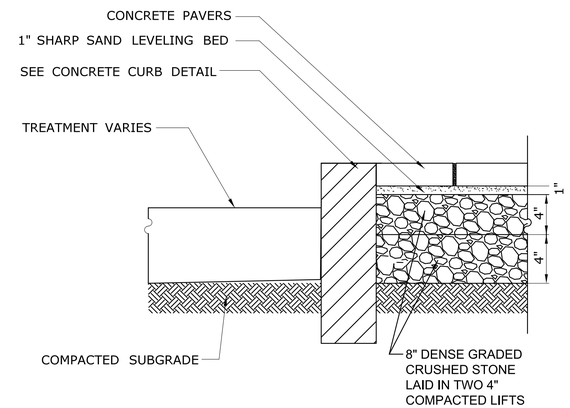
TOWN: **BERLIN**

DRAWING TITLE: **MISCELLANEOUS DETAILS**

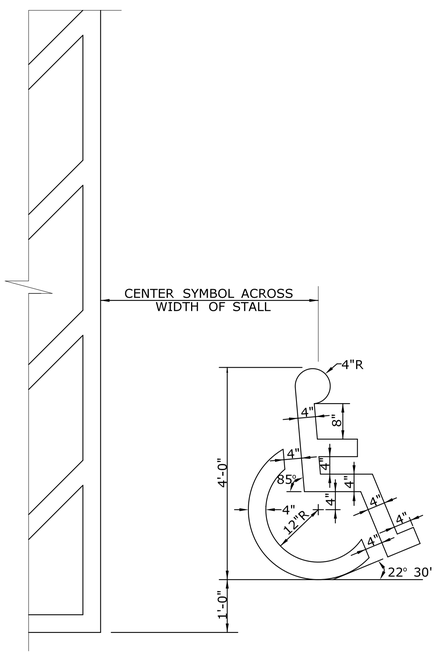
PROJECT NO. **170-3155**
DRAWING NO. **DET-004**
SHEET NO. **01.03.023**



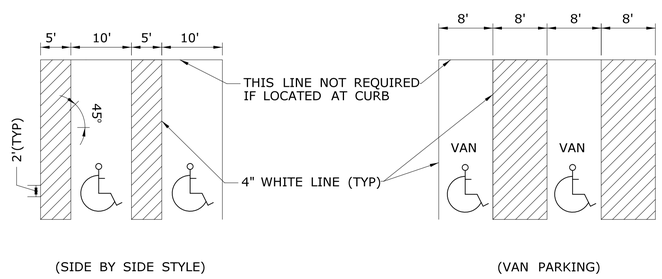
CONCRETE PAVER DETAIL



STONE BASE FOR CONCRETE PAVER DETAIL



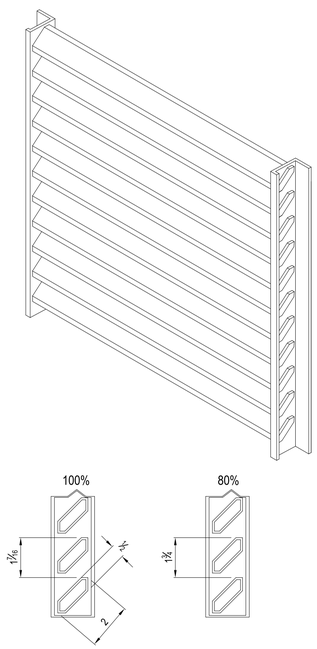
ACCESSIBLE PARKING SPACE SYMBOL



PARKING STALLS FOR HANDICAPPED

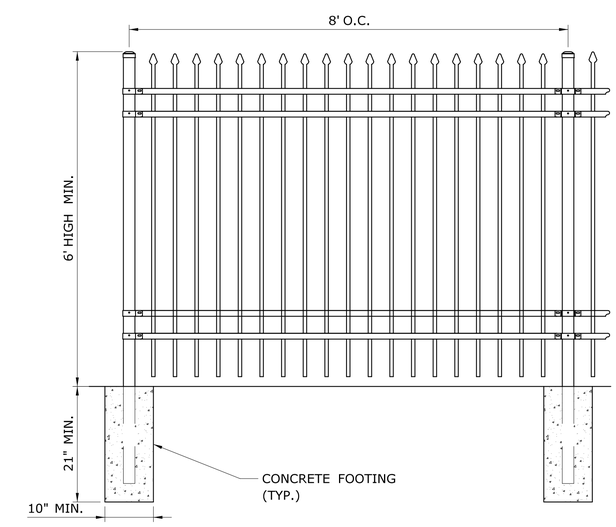
NOTE:

THE ABOVE DETAIL SUPERCEDES THE "PARKING STALLS FOR HANDICAPPED" DETAIL ON CONNDOT STANDARD DRAWING NO. TR-1210_03.



6' HIGH FIXED LOUVRE ALUMINUM FENCE DETAIL

SCALE: N.T.S.



6' HIGH DECORATIVE BLACK POWDER COATED ALUMINUM FENCE DETAIL

SCALE: N.T.S.

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CHECKED BY: **A.SARDILLI**

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FA_CGR_CPS_0170-2296_007_04_CSP_MDS_005.dgn

SIGNATURE/ BLOCK:

Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

STATE OF CONNECTICUT
MICHAEL BRUCE WHITFORD
NO. 25,295
LICENSED
PROFESSIONAL ENGINEER

PROJECT TITLE:

NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

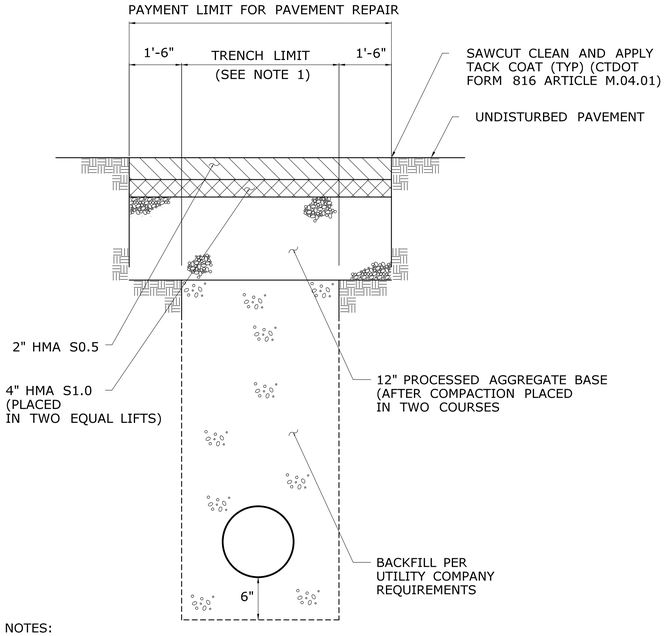
TOWN: **BERLIN**

DRAWING TITLE: **MISCELLANEOUS DETAILS**

PROJECT NO. **170-3155**

DRAWING NO. **DET-005**

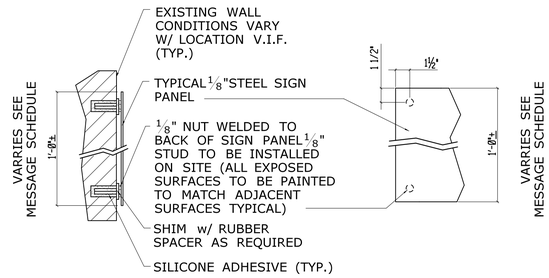
SHEET NO. **01.03.024**



NOTES:

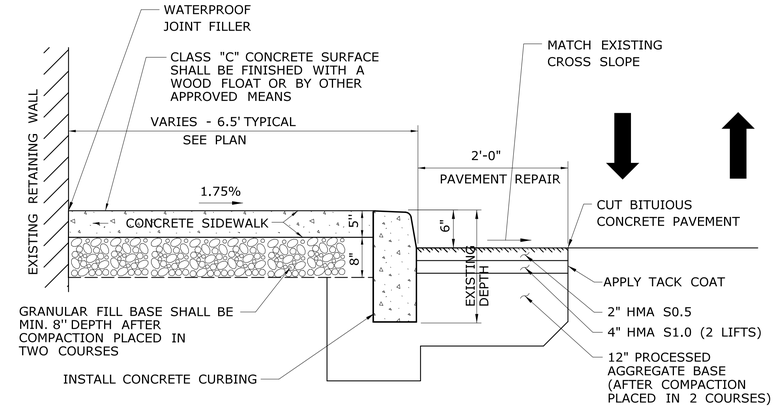
1. THE LIMIT OF THE TRENCH SHALL BE AS SHOWN IN TRENCH EXCAVATION DETAILS FOR EACH RESPECTIVE UTILITY.
2. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT AT THE LIMITS OF PAVEMENT REPAIR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SAWCUTTING, REMOVAL OF EXISTING PAVEMENT FROM TRENCH LIMITS TO LIMITS OF PAVEMENT REPAIR, HOT MIXED ASPHALT PROCESSED AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH RESPECTIVE ITEM. THE CLEANING AND APPLICATION OF TACK COAT TO THE EXISTING PAVEMENT SURFACES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NOT MEASURED FOR PAVEMENT.
4. TRENCH EXCAVATION WILL BE PAID FOR UNDER EACH RESPECTIVE UTILITY ITEM OR UNDER MLSI WHERE NO ITEM EXISTS.

PAVEMENT REPAIR



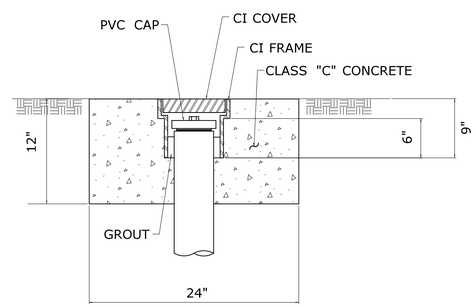
SIGN MOUNTED TO EXISTING WALL DETAIL

SCALE: N.T.S.

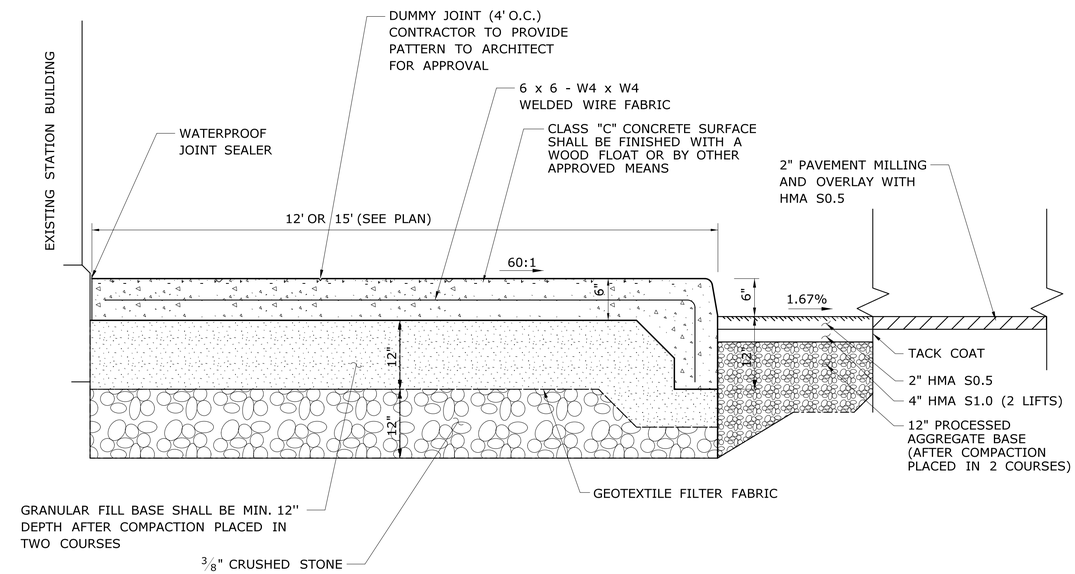


SECTION THROUGH NEW CONCRETE SIDEWALK ALONG EXISTING RETAINING WALL

SCALE: N.T.S.



DETAIL "A"



NOTES

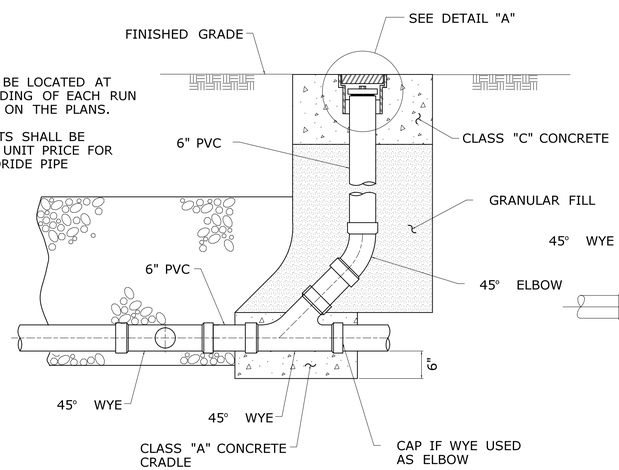
1. SCORING PATTERN TO BE 4' x 4'
2. CONTROL JOINTS SHALL BE PLACED 20' O.C. PERPENDICULAR TO BUILDING

MONOLITHIC CONCRETE WALK AND CURB AT BUILDING

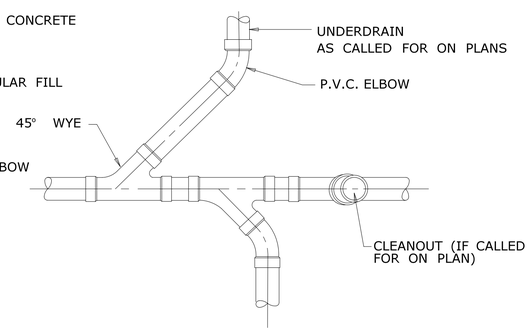
SCALE: N.T.S.

NOTES:

1. CLEANOUTS SHALL BE LOCATED AT BEGINING AND ENDING OF EACH RUN OR AS INDICATED ON THE PLANS.
2. COST OF CLEANOUTS SHALL BE INCLUDED IN THE UNIT PRICE FOR 6" POLYVINYL CHLORIDE PIPE



ROOF LEADER CLEANOUT DETAIL



UNDERDRAIN ELBOW CONNECTION DETAILS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY: A.SARDILLI
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SIGNATURE/BLOCK: Baker
Michael Baker Engineering Inc.
500 Enterprise Drive
Suite 2B
Rocky Hill, CT 06067

PROJECT TITLE: NEW HAVEN - HARTFORD SPRINGFIELD RAIL CORRIDOR

TOWN: BERLIN

DRAWING TITLE: MISCELLANEOUS DETAILS

PROJECT NO. 170-3155
DRAWING NO. DET-006
SHEET NO. 01.03.025