

MARKET STREET GATEWAY IMPROVEMENTS

CITY OF PORTSMOUTH NEW HAMPSHIRE



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PROJECT LOCATION:

THE PROJECT AREA IS MARKET STREET, APPROXIMATELY 200-FT EAST OF I-95 EXIT 7 OVERPASS TO RUSSELL STREET.

PROJECT DESCRIPTION:

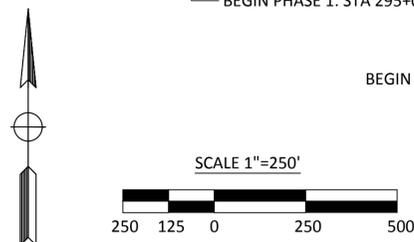
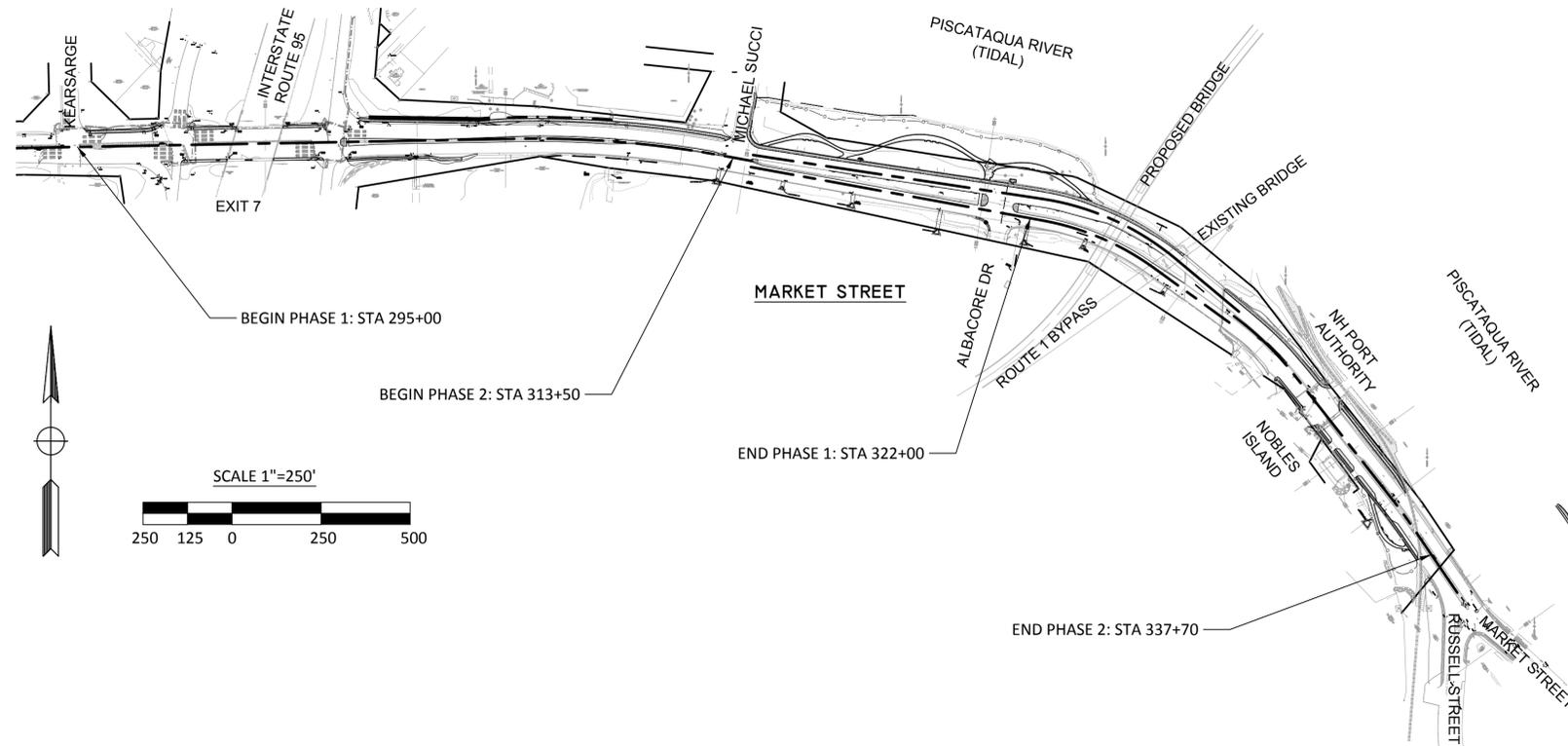
THIS PROJECT WILL CONSTRUCT NEW MEDIANS, BIKE LANES, SIDEWALKS, STREET LIGHTING, TRAFFIC SIGNAL, STREETSCAPING, PAVEMENT MARKINGS, SIGNAGE, DRAINAGE, RECREATIONAL PARKS, AND GUARDRAILS IN TWO PHASES.

PHASE 1 WILL RECONSTRUCT THE WESTBOUND SIDEWALK AND REMOVE THE EXISTING CONCRETE MEDIAN AND REPLACE WITH A PLANTED AND LANDSCAPED MEDIAN BETWEEN KEARSARGE WAY AND ALBACORE DRIVE ON MARKET STREET. THE MEDIAN CURB SHALL BE REMOVED AND RESET AS APPROPRIATE. ADDITIONAL IMPROVEMENTS INCLUDE LIGHTING AND ELECTRICAL CONDUIT, RELOCATED AND NEW SIGNAL EQUIPMENT AT THE I-95 EXIT 7 INTERCHANGE, REPLACED DRAINAGE CULVERTS AND OUTFALLS, BIKE LANE STRIPING, NEW BUS PULL-OFFS IN THE WESTBOUND AND EASTBOUND DIRECTIONS, NEW AND SALVAGED SIGNS, REMOVAL OF PAVEMENT MARKINGS, ASSOCIATED STRIPING AND DRAINAGE ENHANCEMENTS, AND OTHER INCIDENTAL AND SUBSIDIARY CONSTRUCTION ITEMS.

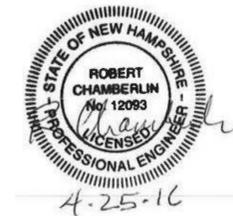
PHASE 2 WILL RECONSTRUCT THE SIDEWALK AND REMOVE THE EXISTING CONCRETE MEDIAN AND REPLACE WITH A PLANTED AND LANDSCAPED MEDIAN FROM ALBACORE DRIVE TO RUSSELL STREET, AND REDEVELOP THE RIVERFRONT AND NORTH MILL POND PARKS. THE MEDIAN SHALL REMOVE AND RESET THE EXISTING SLOPED GRANITE CURB. ADDITIONAL IMPROVEMENTS INCLUDE LIGHTING AND ELECTRICAL CONDUIT, NEW TRAFFIC SIGNAL EQUIPMENT AT THE MARKET STREET / NOBLE'S ISLAND INTERSECTION, REPLACED DRAINAGE CULVERTS AND OUTFALLS, BIKE LANE STRIPING, NEW AND SALVAGED SIGNS, REMOVAL OF PAVEMENT MARKINGS, ASSOCIATED STRIPING AND DRAINAGE ENHANCEMENTS, AND OTHER INCIDENTAL AND SUBSIDIARY CONSTRUCTION ITEMS.

LENGTH OF PROJECT:

APPROXIMATELY 5,000 FEET ALONG MARKET STREET.



PROJECT LOCATION
MARKET STREET
PORTSMOUTH, NH



FINAL DESIGN
NOVEMBER 2015



no.	revision	date	by

PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: NTS
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Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
TITLE SHEET

DATE: NOVEMBER 2015
DRAWING No.
G-01
SHEET: 1 of 100

GENERAL NOTES

- TOPOGRAPHIC AND EXISTING CONDITIONS INFORMATION IS BASED ON FIELD SURVEY BY JAMES VERRA AND ASSOCIATES, INC. DATED 6/11/2013. WETLAND DELINEATION PERFORMED BY GZA GEOENVIRONMENTAL, INC. ON APRIL 26, 2013.
- THE CONTRACTOR SHALL VERIFY AND DETERMINE THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (888) 344-7233 AND THE CITY OF PORTSMOUTH AT LEAST 72 HOURS BEFORE DIGGING.
- THIS PROJECT IS TO BE CONSTRUCTED TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE STANDARDS OF THE CITY OF PORTSMOUTH AND THE REQUIREMENTS OF THE LATEST EDITION OF THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, TEMPORARY UTILITIES AND COORDINATION WITH ALL AGENCIES IN OBTAINING ACCESS TO THE SITE AND PERFORMING ALL WORK REQUIRED FOR THIS PROJECT.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
- CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING BENCHMARKS AND BOUNDS. ALL BENCHMARKS AND BOUNDS DISTURBED BY THE CONTRACTOR SHALL BE RE-ESTABLISHED BY A NEW HAMPSHIRE REGISTERED LAND SURVEYOR AT NO EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL PERFORM ALL THE CLEARING AND GRUBBING NECESSARY WITHIN THE CONSTRUCTION AREA, LIMITING THE AMOUNT OF CLEARING AND GRUBBING TO THE EXTENT POSSIBLE.
- THE CONTRACTOR SHALL CREATE A TRAFFIC CONTROL PLAN TO BE APPROVED BY THE RESIDENT ENGINEER, OR SHALL CONTRACT WITH A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW HAMPSHIRE, TO CREATE A TRAFFIC CONTROL PLAN TO BE APPROVED BY THE RESIDENT ENGINEER. CREATION OF THE TRAFFIC CONTROL PLAN AND ALL WORK REQUIRED TO MAINTAIN THE TRAFFIC CONTROL PLAN THAT IS NOT SPECIFIED BY OTHER ITEMS IN THESE PLANS SHALL BE PAID UNDER ITEM 619.1 – MAINTENANCE OF TRAFFIC. THIS WORK INCLUDES, BUT IT NOT LIMITED TO, PROTECTING VEHICLES, BICYCLISTS, AND PEDESTRIANS FROM STEEP SLOPES WHEN GUARDRAIL IS BEING REPLACED. THE TRAFFIC CONTROL PLAN SHALL PROVIDE ACCOMMODATIONS FOR VEHICLES, BICYCLISTS, AND PEDESTRIANS TO SAFELY TRAVEL THROUGH THE CONSTRUCTION SITE OR PROVIDE REASONABLE DETOUR ROUTES THAT ARE SUITABLE TO EACH MODE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY EXCAVATION SAFEGUARDS, NECESSARY BARRICADES, POLICE DETAILS, ETC., FOR TRAFFIC CONTROL AND SITE SAFETY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL WORK IS DONE IN ACCORDANCE WITH OSHA REQUIREMENTS.
- WHEN PREPARING THE EXISTING LAND FOR THE PROPOSED WORK, ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL GOVERNING AGENCIES.
- SPECIAL ATTENTION OF THE CONTRACTOR IS CALLED TO THE REQUIRED TYPE AND COMPACTION OF PIPE BEDDING AND BACKFILL SPECIFIED ON THESE DRAWINGS. THESE REQUIREMENTS WILL BE STRICTLY ENFORCED.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS THAT DO NOT HAVE A SURFACE TREATMENT SPECIFICALLY SPECIFIED SHALL BE RESTORED TO A MINIMUM OF 6-INCHES OF SEEDED TOPSOIL, FERTILIZER, AND MULCH.
- ALL DEWATERING MUST BE EXECUTED IN ACCORDANCE WITH THE PLANS AND NH DOT STANDARD SPECIFICATIONS DIVISION 600. REGULATIONS PROHIBIT DISCHARGING GROUNDWATER TO A SANITARY OR COMBINED SEWER WITHOUT PERMISSION. DEWATERING SHALL BE SUBSIDIARY TO EXCAVATION WORK.
- THE CONTRACTOR SHALL REMOVE, CONTAIN, TEST AND DISPOSE OF EXCAVATED SOILS IN ACCORDANCE WITH THE NH DOT STANDARD SPECIFICATIONS DIVISION 200 – EARTHWORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS OF THE SITE.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS WITHIN THE LIMIT OF WORK.
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AMERICANS WITH DISABILITIES (ADA) ACT AND STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS (PIPE, CASTINGS, STRUCTURES, ETC.) TO INSPECTING ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT AS BUILT PLANS ON REPRODUCIBLE MYLAR AND IN DIGITAL FORMAT (AUTOCAD .DWG FORMAT) ON CD TO THE OWNER UPON COMPLETION OF THE PROJECT. AS BUILTS SHALL BE PREPARED AND CERTIFIED BY A REGISTERED NEW HAMPSHIRE LAND SURVEYOR OR PROFESSIONAL ENGINEER. AN ELECTRONIC FILE OF THE SITE LAYOUT SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH'S GIS DEPARTMENT SO THE CITY'S GIS SYSTEM CAN BE UPDATED.
- ALL TRAFFIC SIGNAGE SHALL MEET AND BE INSTALLED PER SPECIFICATIONS OF THE MUTCD.
- PRIOR TO THE START OF CONSTRUCTION, A CONSTRUCTION MANAGEMENT AND MITIGATION PLAN SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE CITY OF PORTSMOUTH. PREPARATION OF AND AND ALL WORK/MATERIALS REQUIRED TO MAINTAIN THE PLAN THAT IS NOT SPECIFIED BY OTHER ITEMS IN THESE PLANS SHALL BE PAID UNDER ITEM 692 – MOBILIZATION.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A NPDES PERMIT FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. PREPARATION OF AND AND ALL WORK/MATERIALS REQUIRED TO MAINTAIN THE NPDES PERMIT THAT IS NOT SPECIFIED BY OTHER ITEMS IN THESE PLANS SHALL BE PAID UNDER ITEM 692 – MOBILIZATION.

DRAINAGE NOTES

- THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. ALL PIPE MATERIALS SHALL BE AS SPECIFIED ON THE PLANS. CONSTRUCTIONS METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
- PROPOSED RIM ELEVATIONS OF DRAINAGE MANHOLES AND CATCH BASINS ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- THE CONTRACTOR SHALL INSTALL BELL TRAPS / OIL SEPARATOR HOODS ON ALL CATCH BASIN OUTLETS. SUBSIDIARY TO ITEM 604.1 APPLICABLE CATCH BASIN INSTALLATION OR ITEM 604.4.
- THE CONTRACTOR SHALL PROVIDE FOR THE HANDLING OF EXISTING FLOWS FROM SERVICE CONNECTIONS AND MAINLINE PIPES. THE EXISTING SEWERS AND DRAINS HAVE ACTIVE FLOWS AND THE CONTRACTOR SHALL MAINTAIN CONTINUOUS FLOW WITHOUT RESTRICTIONS.
- THE CONTRACTOR SHALL STABILIZE ANY AND ALL DITCHES, SWALES AND PONDS PRIOR TO DIRECTING STORM WATER RUN-OFF TO THEM.
- WHEN CONNECTING NEW PIPES TO EXISTING STRUCTURES SUCH AS MANHOLES AND CATCH BASINS, THE STRUCTURE SHALL BE COMPLETELY CLEANED OUT. THE HOLE MADE IN THE STRUCTURE SHALL BE AS SMALL AS NECESSARY. THE STRUCTURE SHALL BE REPAIRED TO MATCH ITS ORIGINAL TYPE OF CONSTRUCTION. THE JOINT BETWEEN THE STRUCTURE AND THE PIPE SHALL BE MADE WATERTIGHT BY FILLING THE JOINT WITH MORTAR. SUBSIDIARY TO ITEM 603 APPLICABLE PIPE INSTALLATION.
- THE CONTRACTOR SHALL CLEAN THE ENTIRE STORMWATER SYSTEM OF ALL SEDIMENT AND DEBRIS, WITHIN THE LIMIT OF WORK UPON COMPLETION OF CONSTRUCTION.
- ALL DRAIN PIPE WITH LESS THAN 4' OF COVER SHALL BE INSULATED. INSULATION SHALL BE RIGID CLOSED CELL WITH A MINIMUM R VALUE OF 10. SUBSIDIARY TO ITEM 603 APPLICABLE PIPE INSTALLATION.

EARTHWORK & GRADING NOTES

- GRADE AWAY FROM BUILDING WALLS AT 2% MINIMUM (TYPICAL).
- PROVIDE UNIFORM SLOPE BETWEEN CONTOURS AND/OR SPOT ELEVATIONS.
- EARTH SLOPES SHALL BE NO STEEPER THAN 2:1 (HORIZONTAL:VERTICAL) AND SHALL BE FLATTER WHERE SHOWN.
- GENERAL FILL BEYOND PAVED AREAS SHALL BE FREE OF BRUSH RUBBISH, STUMPS, AND STONES LARGER THAN 8". FILL SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8" IN THICKNESS. THE DRY DENSITY AFTER COMPACTION SHALL NOT BE LESS THAN 95% OF THE STANDARD PROCTOR TEST AND DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D698.
- AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, THE SUBGRADE SHALL BE LOOSENEED BY SCARIFYING TO A DEPTH OF AT LEAST 2" TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
- FILL OR TOPSOIL SHALL NEITHER BE PLACED NOR COMPACTED WHILE IN A FROZEN OR MUDDY CONDITION OR WHILE SUBGRADE IS FROZEN.
- FINISH PAVEMENT SURFACES AND LAWN AREAS SHALL BE FREE OF LOW SPOTS AND PONDING AREAS.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- ALL ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

APPLICABLE PERMITS

- THE MARKET STREET GATEWAY PROJECT IS SUBJECT TO THE FOLLOWING PERMITS:
 - 1.1 ARMY CORPS OF ENGINEERS WETLAND PERMIT 2016-267, ISSUED 1/27/16
 - 1.2 NHDES ALTERATION OF TERRAIN PERMIT 20150702-115, ISSUED 9/7/15
 - 1.3 NHDES SHORELAND PERMIT 2015-00050, ISSUED 1/9/15
 - 1.4 NHDES WETLAND PERMIT 2015-00046, ISSUED 1/9/15

UTILITY NOTES

- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE WITH THE UTILITY COMPANIES FOR RELOCATING AND/OR SUPPORTING THEIR UTILITIES IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING FACILITIES AT ALL TIMES. IF ANY DISRUPTION MUST OCCUR, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH FACILITY AT LEAST 72 HOURS IN ADVANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF EXISTING UTILITIES AND STRUCTURES DAMAGED OR REMOVED BY THE CONTRACTOR DURING THEIR OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
- FINAL ELEVATIONS OF UTILITY STRUCTURES ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES, AND OTHER UTILITIES ARE TO BE SET FLUSH WITH FINISH GRADE WITHIN LIMITS OF WORK.
- DURING EXCAVATION, IT IS ANTICIPATED THAT EXISTING UTILITIES AND SEWERS WILL BE EXPOSED. THE CONTRACTOR SHALL PROVIDE PROTECTION AND SUPPORT OF THESE FACILITIES AND REPAIR ANY DAMAGE CAUSED BY THE WORK IN A MANNER SATISFACTORY TO THE OWNER.
- ALL ELECTRIC MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AS WELL AS STATE AND LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF ELECTRICAL WORK, INCLUDING BUT NOT LIMITED TO ELECTRICAL SERVICE DESIGN, METER DESIGN, CIRCUIT LAYOUT, AND ELECTRICAL LOADS.
- INSTALL NYLON PULL ROPES IN UNDERGROUND CONDUITS TO FACILITATE PULLING CABLES.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL HANDHOLES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- THE CONTRACTOR SHALL REVIEW THE LOCATION OF ALL OVERHEAD WIRES WITHIN THE PROJECT AREA IN THE FIELD TO DETERMINE THEIR IMPACT ON CONSTRUCTION MEANS AND METHODS.
- THE NUMBER, TYPE, AND SIZE OF UTILITY CONDUITS SHALL BE DETERMINED BY THE UTILITY COMPANY.
- THE EXACT LOCATIONS OF NEW UTILITY SERVICES SHALL BE DETERMINED BY THE UTILITY COMPANY.
- WHEN RELOCATING, ALTERING, OR REPLACING TRAFFIC SIGNALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING OVERHEAD AND UNDERGROUND UTILITIES AS NECESSARY. THIS WORK SHALL BE SUBSIDIARY TO TRAFFIC SIGNAL ITEMS – 616.1. ALTERATIONS TO TRAFFIC SIGNAL ITEMS – 616.9, OR RELOCATING TRAFFIC SIGNAL ITEMS – 616.4, AS APPROPRIATE.

SURVEY NOTES

- THIS PLAN IS BASED ON A FIELD SURVEY PERFORMED IN 2007 AND MAY 2013. DRAIN & SEWER STRUCTURES JUST EAST OF ROUTE 1-95 AND WEST TO KEARSARGE WAY WERE RAISED AFTER THE FIELD WORK WAS COMPLETE. AS-BUILT SURVEY INFORMATION HAS BEEN ADDED TO THE EXISTING CONDITIONS PLAN.
- ON SITE CONTROL ESTABLISHED USING SURVEY GRADE GPS HORIZONTAL DATUM: NAD 1983 91986 CONTROL ADJUSTMENT) VERTICAL DATUM: NAVD 1988 PRIMARY BM: CITY CONTROL POINT "ALBA"
- THE STATE OF CONVEYED LAND THAT WAS FORMERLY PART OF THE LAROW TO NOBLE'S ISLAND REALTY DEVELOPMENT ON 2/4/1989 – SEE RCRD BOOK 2433, PAGE 867 AND REFERENCE PLAN 2. THE ROW DEPICTED ON REFERENCE PLAN 3 IS SIGNIFICANTLY DIFFERENT THAN THAT SHOWN ON REFERENCE PLAN 2.
- MONUMENTS SHOWN HEREON WERE FOUND 2007 AND 2013.
- CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE SETTING OR ESTABLISHING OF ANY GRADES/ELEVATIONS.

REFERENCE PLANS

- PLANS OF THE PROPOSED FEDERAL AID R.O.W PROJECT, I-95-1(10)14, NH PROJECT NO. P-5875-B, INTERSTATE ROUTE 95, BY STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, RCRD PLAN D-2498, RECORDED 8/1971.
- CONCEPT SKETCH OF DRIVEWAY MODIFICATIONS FOR PORTSMOUTH CHAMBER OF COMMERCE HEADQUARTERS, BY NH DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, DESIGN DIVISION DATED 7/21981, ON FILE AT NHDOT, NOT RECORDED.
- SITE PLAN FOR NOBLE'S ISLAND CONDOMINIUM, MARKET STREET, PORTSMOUTH NH, DATED 1/20/1983, RCRD PLAN D-1709.
- SUBDIVISION PLAN OF LAND FOR JOSEPH E. SAWTELLE, JR. TRUSTEE, MARKET STREET, PORTSMOUTH NH REVISED TO 11/30/1980, RCRD PLAN D-9888.
- PLAN OF LAND FOR GREAT FALLS MILL LIMITED PARTNERSHIP, 446-452 MARKET STREET, PORTSMOUTH NH, DATED 7/1994, RCRD PLAN C-23217.
- DISPOSITION PLAN PARCEL 2B, VAUGHAN STREET URBAN RENEWAL PROJECT, NH R10, PORTSMOUTH, NH, DATED 4/1974, RCRD PLAN C-4518.
- LAND IN PORTSMOUTH NH, BOSTON AND MAINE RAILROAD TO GEORGE D. EMERSON COMPANY, PLAN R3-55-19, DATED 6/1954, PREPARED BY THE BOSTON AND MAINE RAILROAD, NOT RECORDED.

no.	revision	revision	date	by



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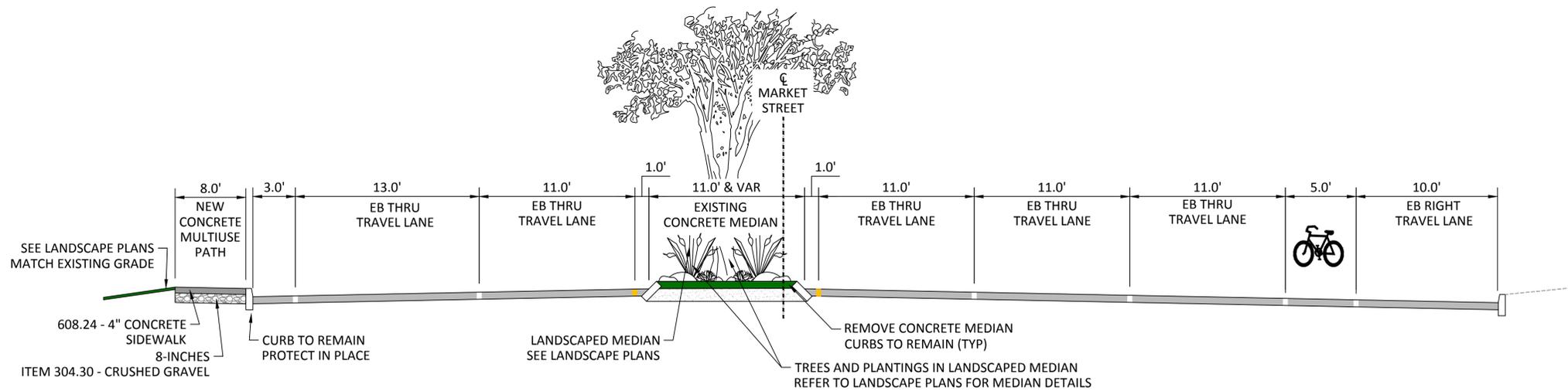
CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

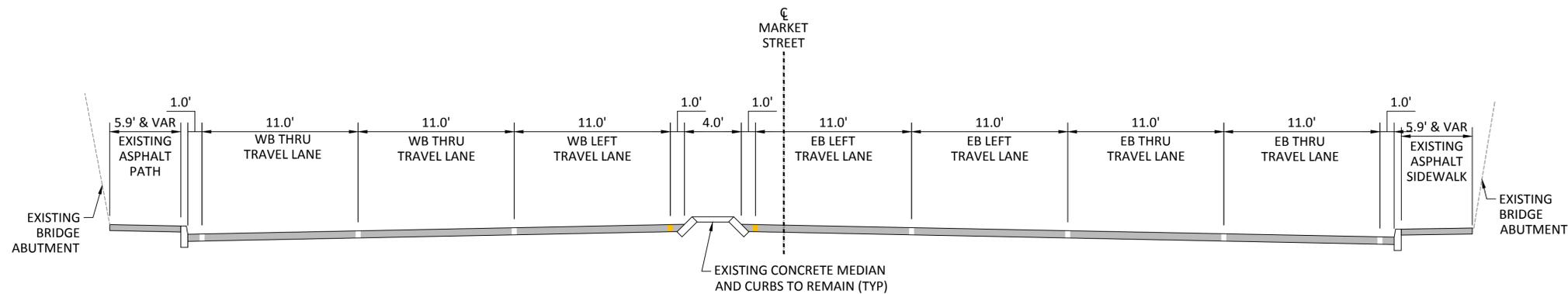
GENERAL NOTES

DATE: APRIL 2016
DRAWING No. G-02
SHEET: 2 of 100

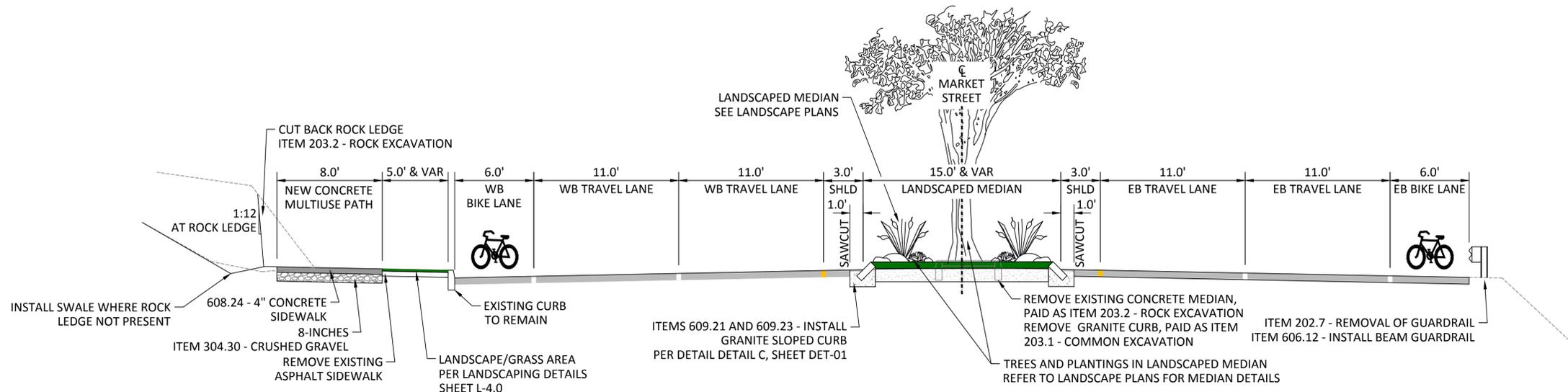
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① TYPICAL SECTION - MARKET STREET BETWEEN KEARSARGE WAY AND I-95 SOUTHBOUND RAMPS
 STATION 295+00 - 297+75
 NOT TO SCALE PHASE 1



② TYPICAL SECTION - UNDER I-95 BRIDGE
 STATION 297+75 - 302+00
 NOT TO SCALE PHASE 1



③ TYPICAL SECTION - MARKET STREET BETWEEN I-95 NORTHBOUND RAMPS AND MICHAEL SUCCI DRIVE
 STATION 302+00 - 313+50
 NOT TO SCALE PHASE 1

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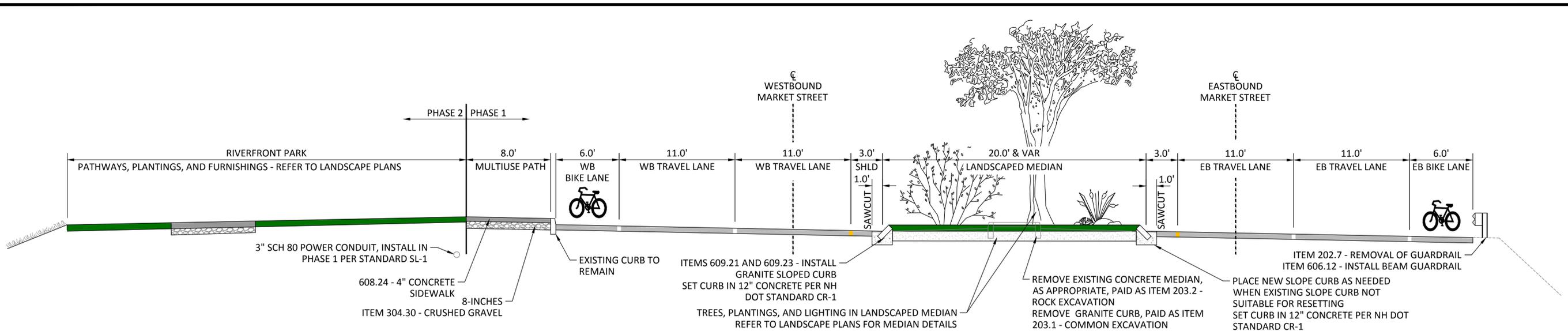
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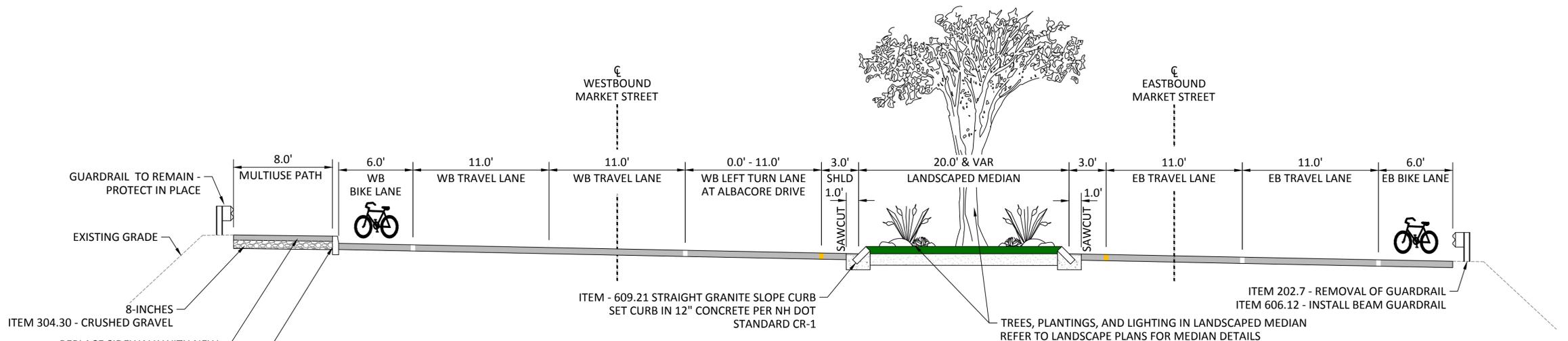
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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 TYPICAL SECTIONS SHEET 1

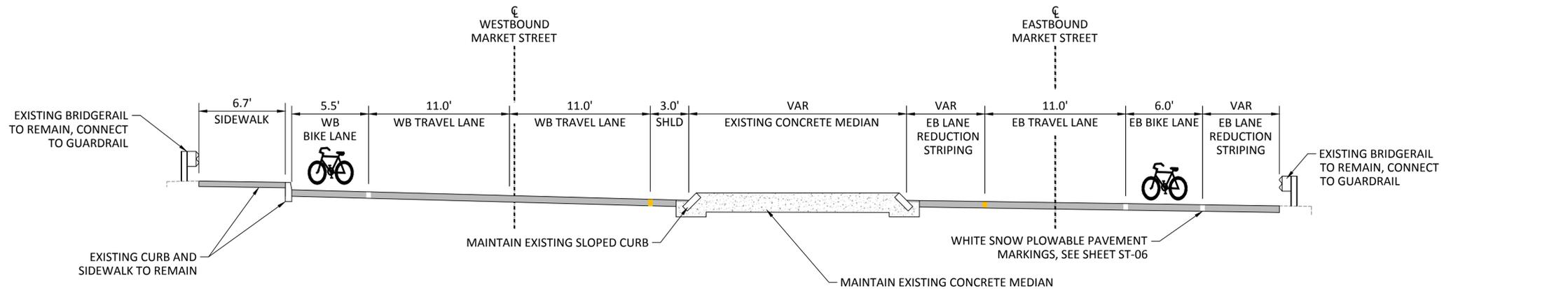
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4 TYPICAL SECTION - MARKET STREET BETWEEN MICHAEL SUCCI DRIVE AND ALBACORE DRIVE
 STATION 313+50 - 321+00
 NOT TO SCALE PHASE 1



5 TYPICAL SECTION - MARKET STREET BETWEEN ALBACORE DRIVE AND THE NORTH MILL POND BRIDGE
 STATION 321+00 - 326+80
 NOT TO SCALE PHASE 2



6 TYPICAL SECTION - MARKET STREET ALONG THE NORTH MILL POND BRIDGE
 STATION 326+80 - 328+10
 NOT TO SCALE PHASE 2

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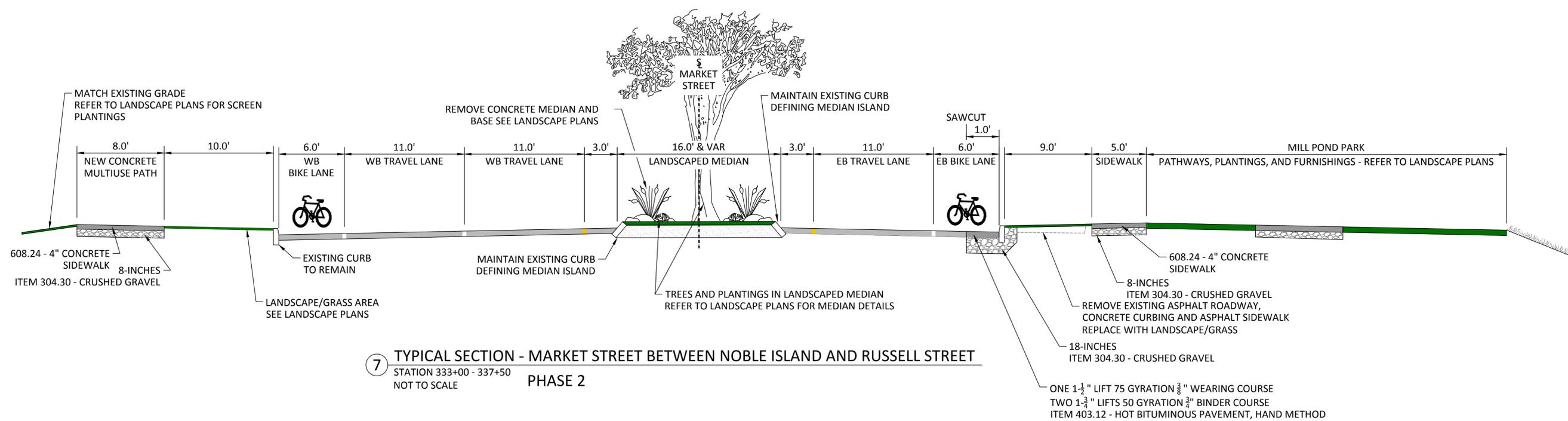
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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 TYPICAL SECTIONS SHEET 2

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7 TYPICAL SECTION - MARKET STREET BETWEEN NOBLE ISLAND AND RUSSELL STREET
 STATION 333+00 - 337+50
 NOT TO SCALE PHASE 2

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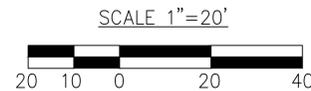
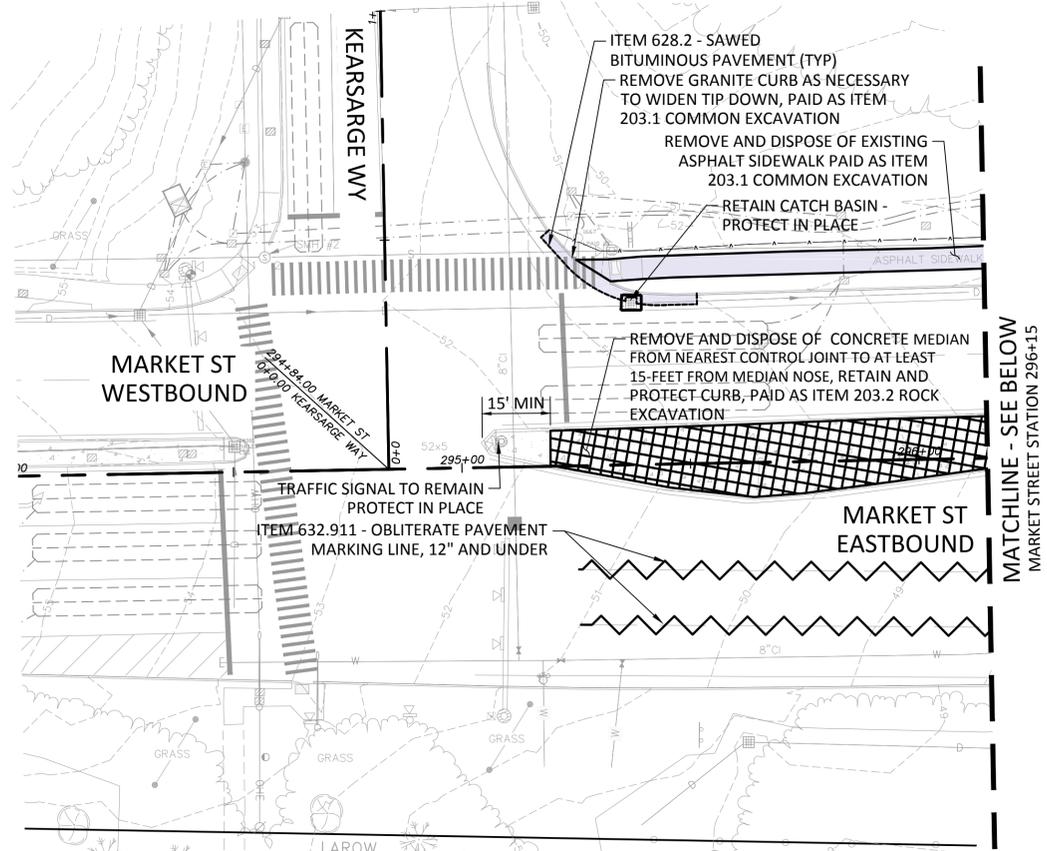


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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 TYPICAL SECTIONS SHEET 3



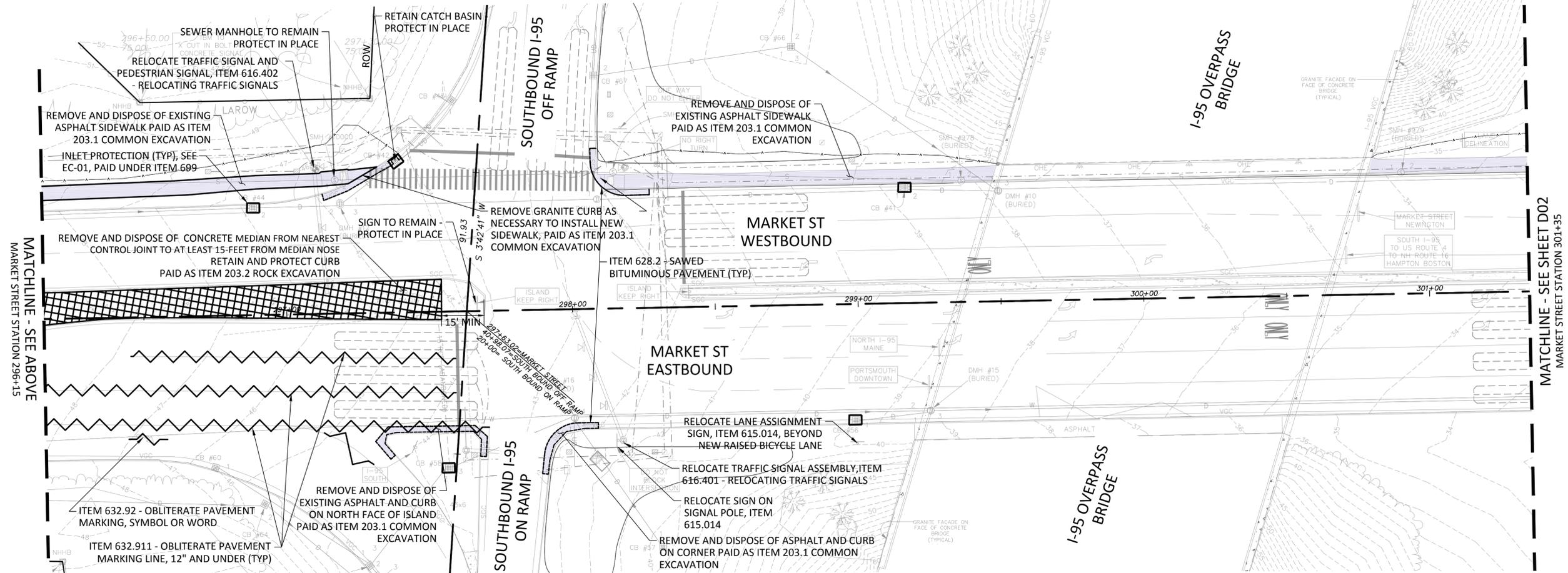
- NOTES
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - PLACE CATCH BASIN INLET PROTECTION DEVICES AT ALL CATCH BASINS WITHIN AND DOWNSTREAM OF THE PROJECT AREA.
 - ALL TOPSOIL REMOVED IN THE CLEARING, GRUBBING, AND EXCAVATION PROCESSES FOR RE-USE ON SITE. STOCKPILE AND REUSE SHALL BE CONSIDERED SUBSIDIARY TO THE CLEARING, GRUBBING, AND EXCAVATION BID ITEMS AS APPROPRIATE.



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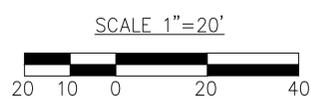
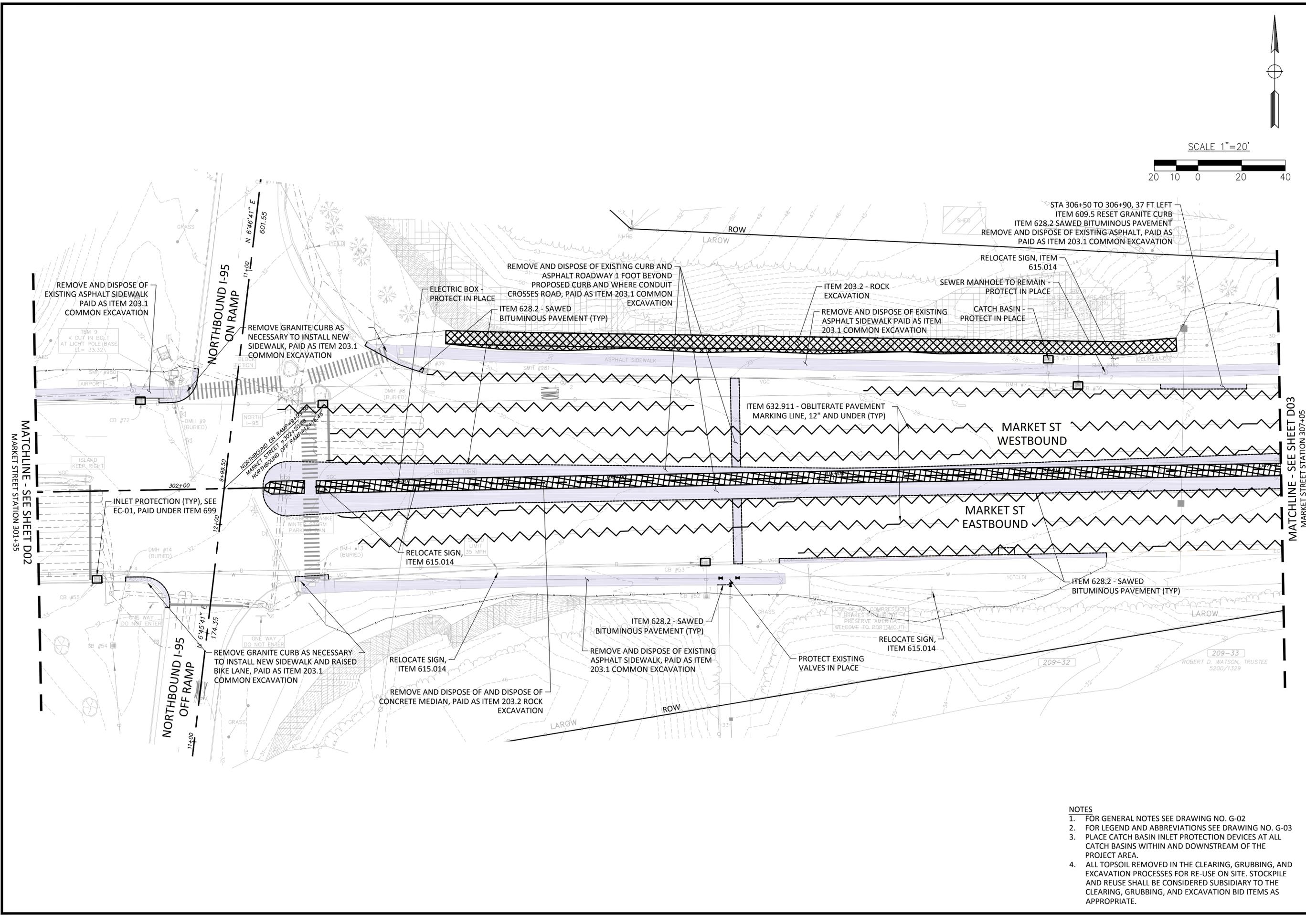
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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 DEMOLITION AND EROSION CTRL PLAN

DATE:	NOVEMBER 2015
DRAWING No.	D-01
SHEET:	7 of 100



- NOTES**
- FOR GENERAL NOTES SEE DRAWING NO. G-02
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no.	revision	revision	date	by

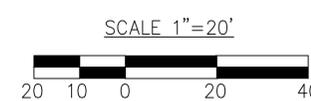
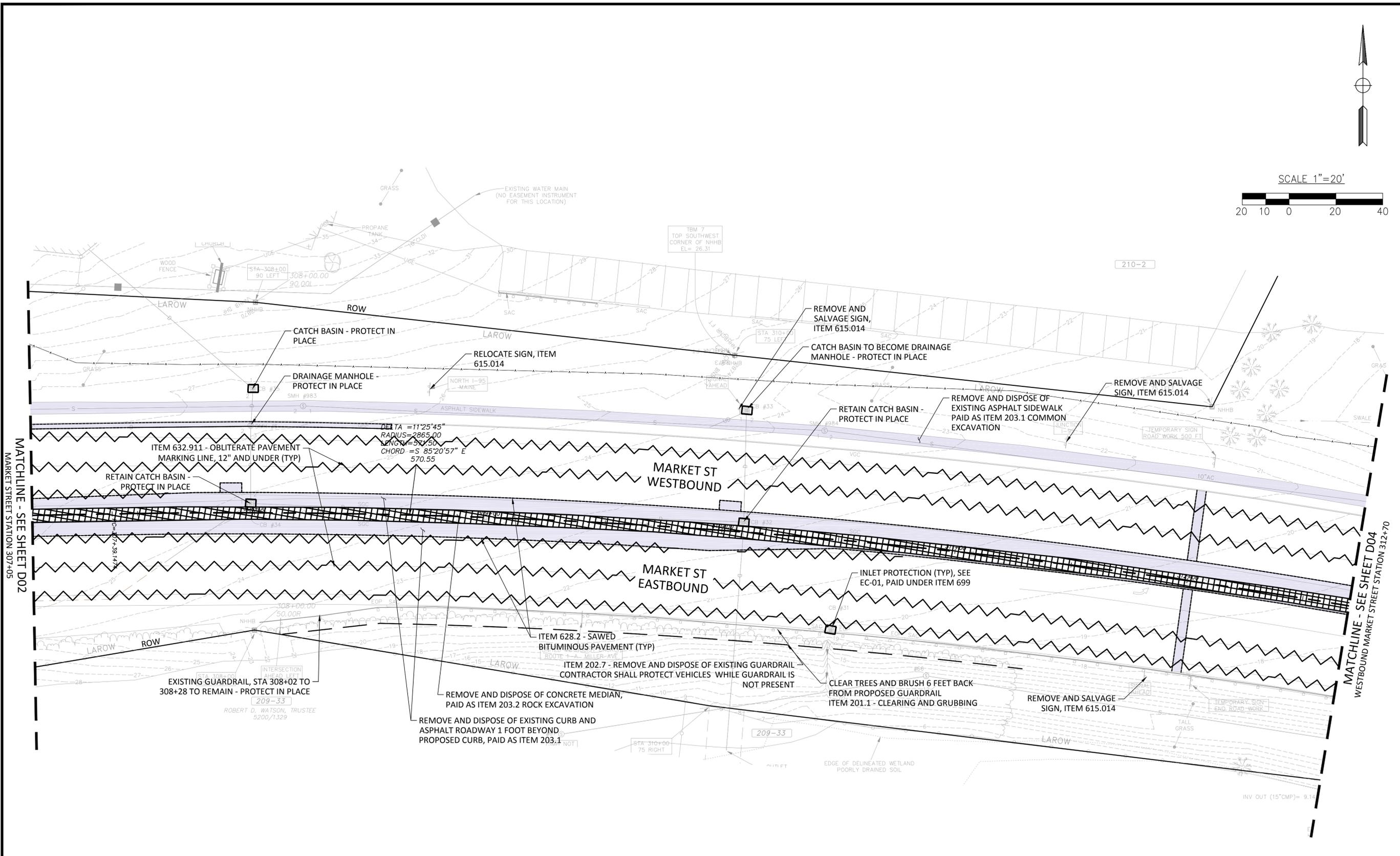
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CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

DEMOLITION AND EROSION CTRL PLAN

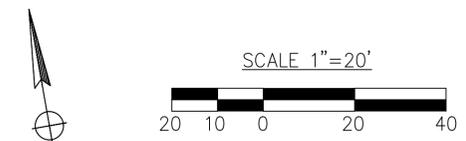
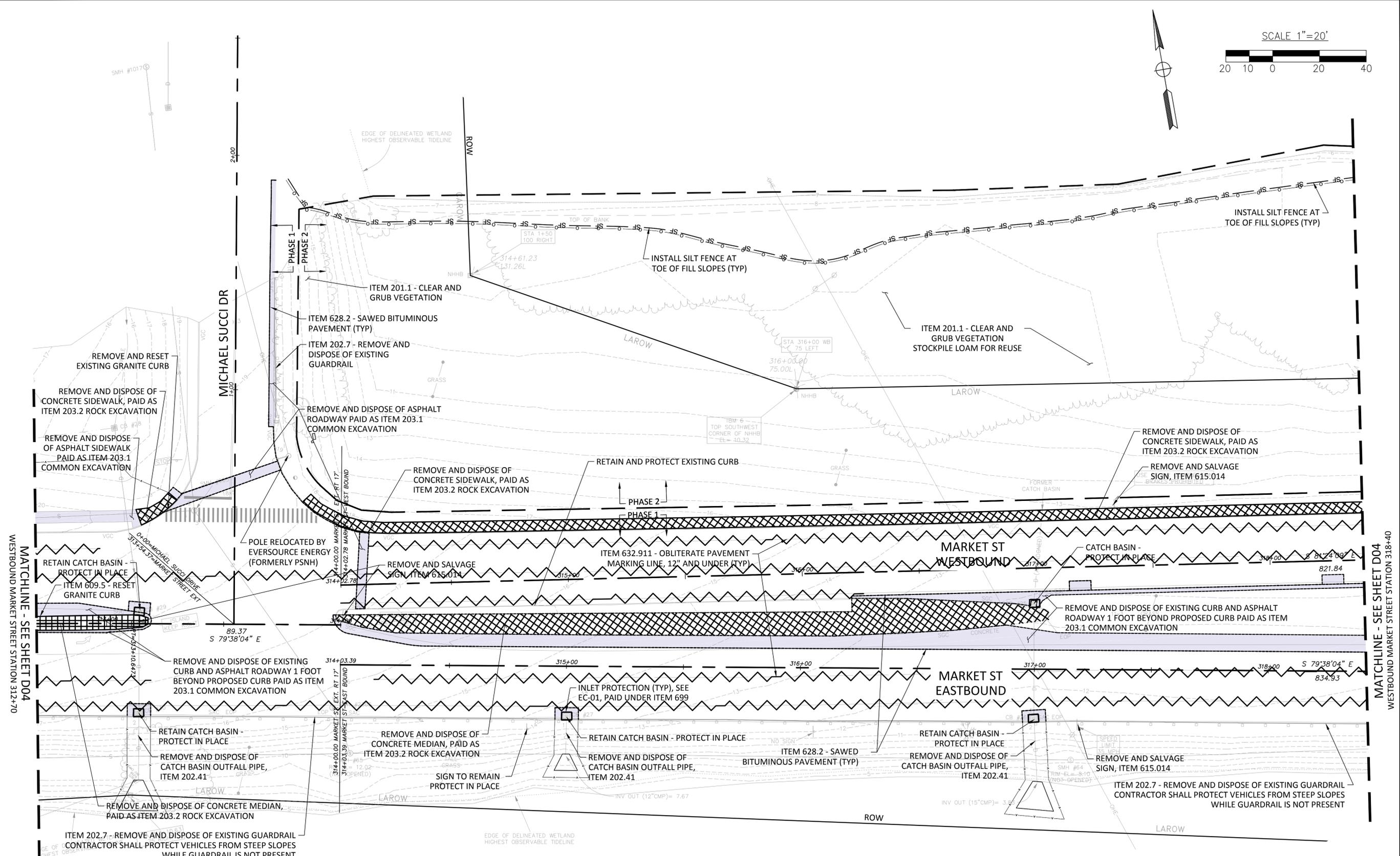
DATE: NOVEMBER 2015
DRAWING No. D-02
SHEET: 8 of 100



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- FOR GENERAL NOTES SEE DRAWING NO. G-02
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DATE: NOVEMBER 2015			
DRAWING No. D-03			
SHEET: 9 of 100			

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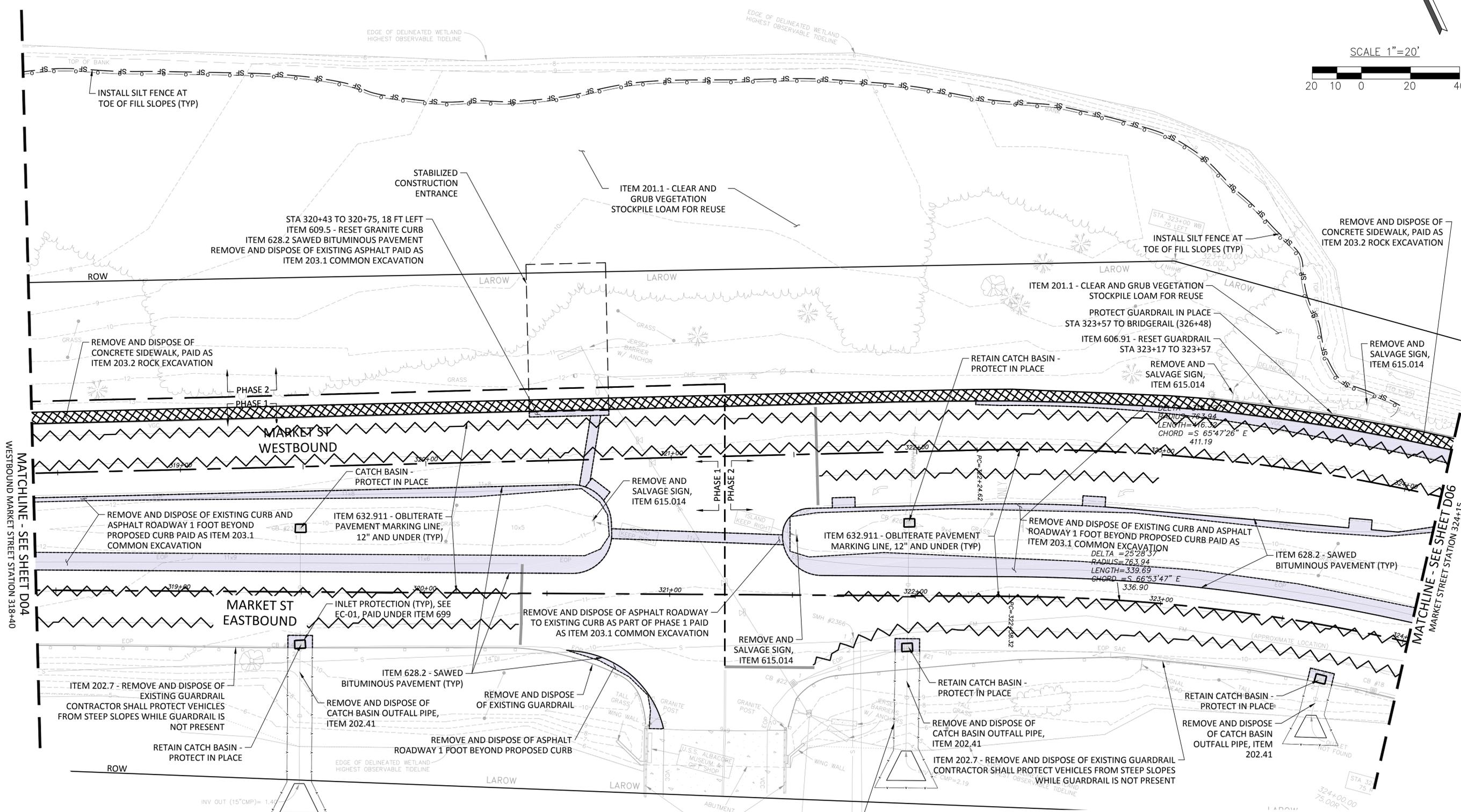
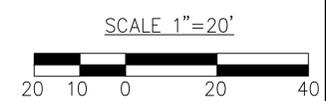
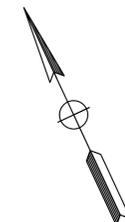
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MARKET STREET GATEWAY
DEMOLITION AND EROSION CTRL PLAN

DATE: NOVEMBER 2015
 DRAWING No. D-04
 SHEET: 10 of 100

- NOTES:
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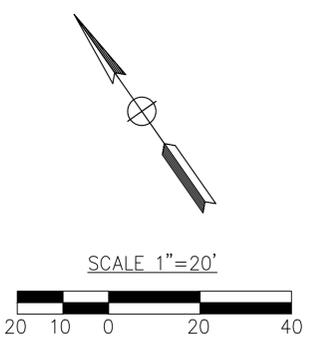
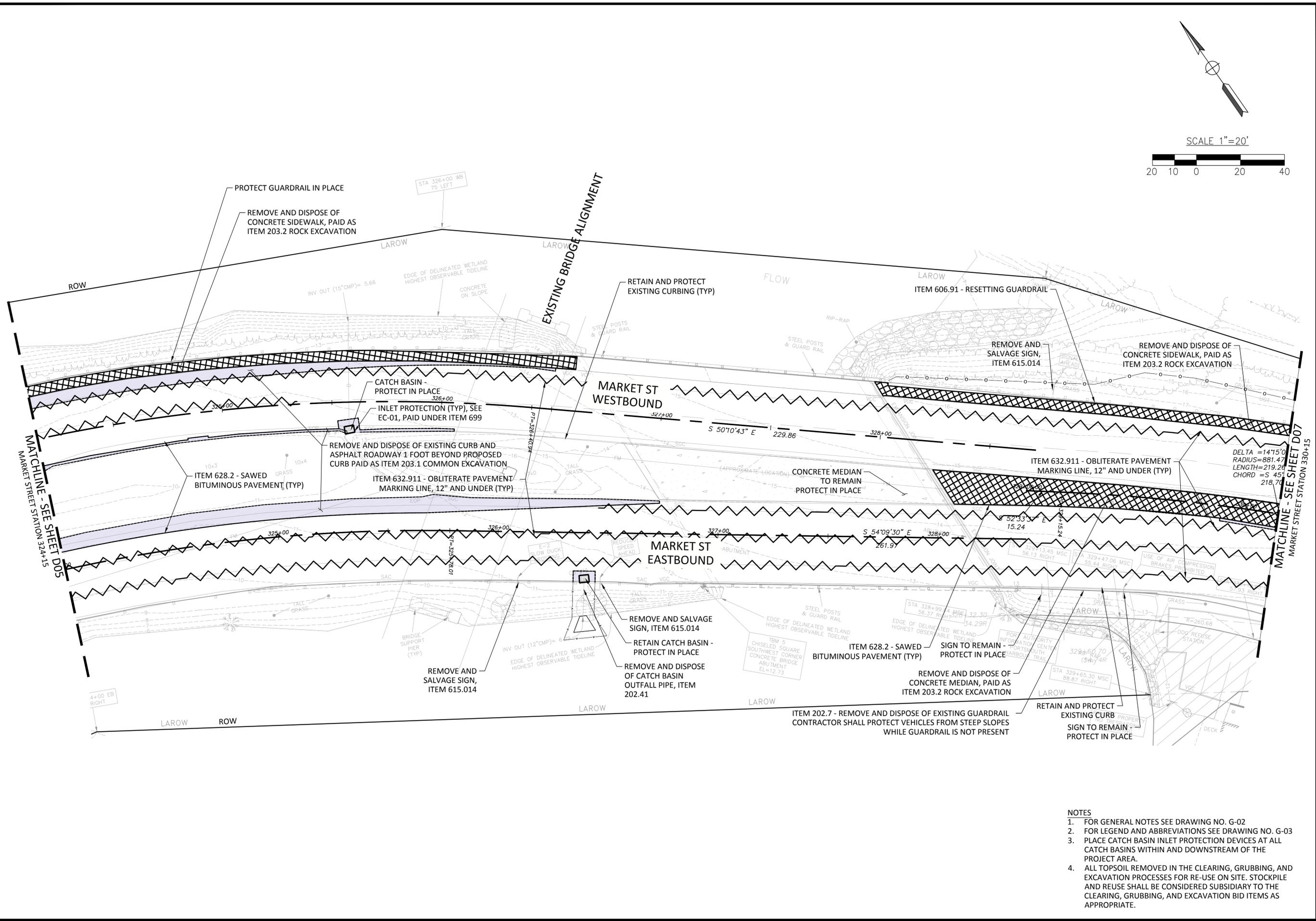
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MARKET STREET GATEWAY
DEMOLITION AND EROSION CTRL PLAN

DATE: NOVEMBER 2015
DRAWING No.
D-05
SHEET: 11 of 100

- NOTES:**
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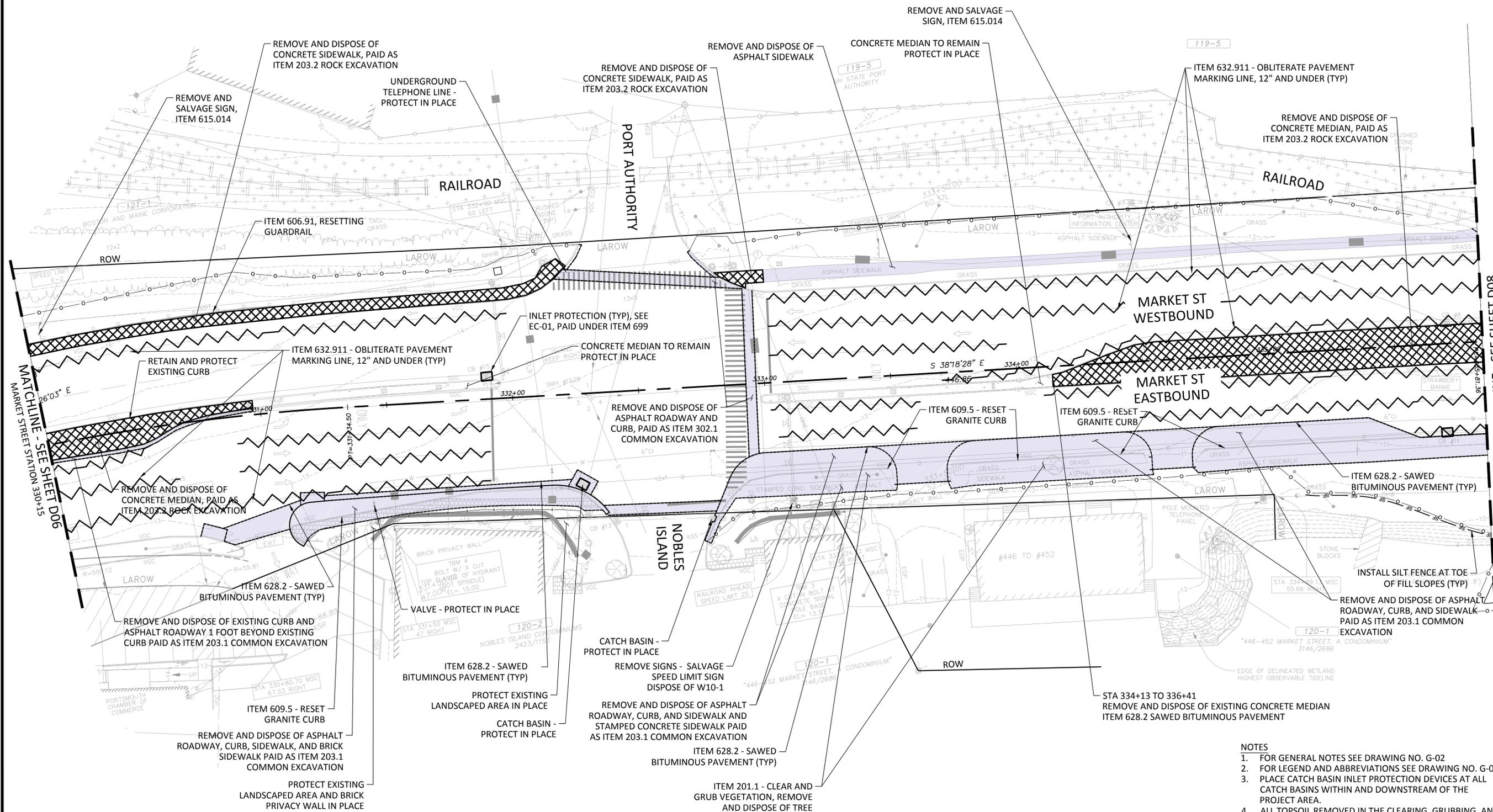
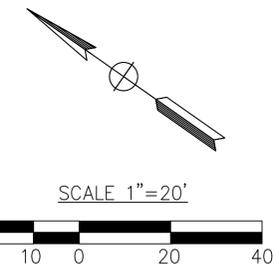
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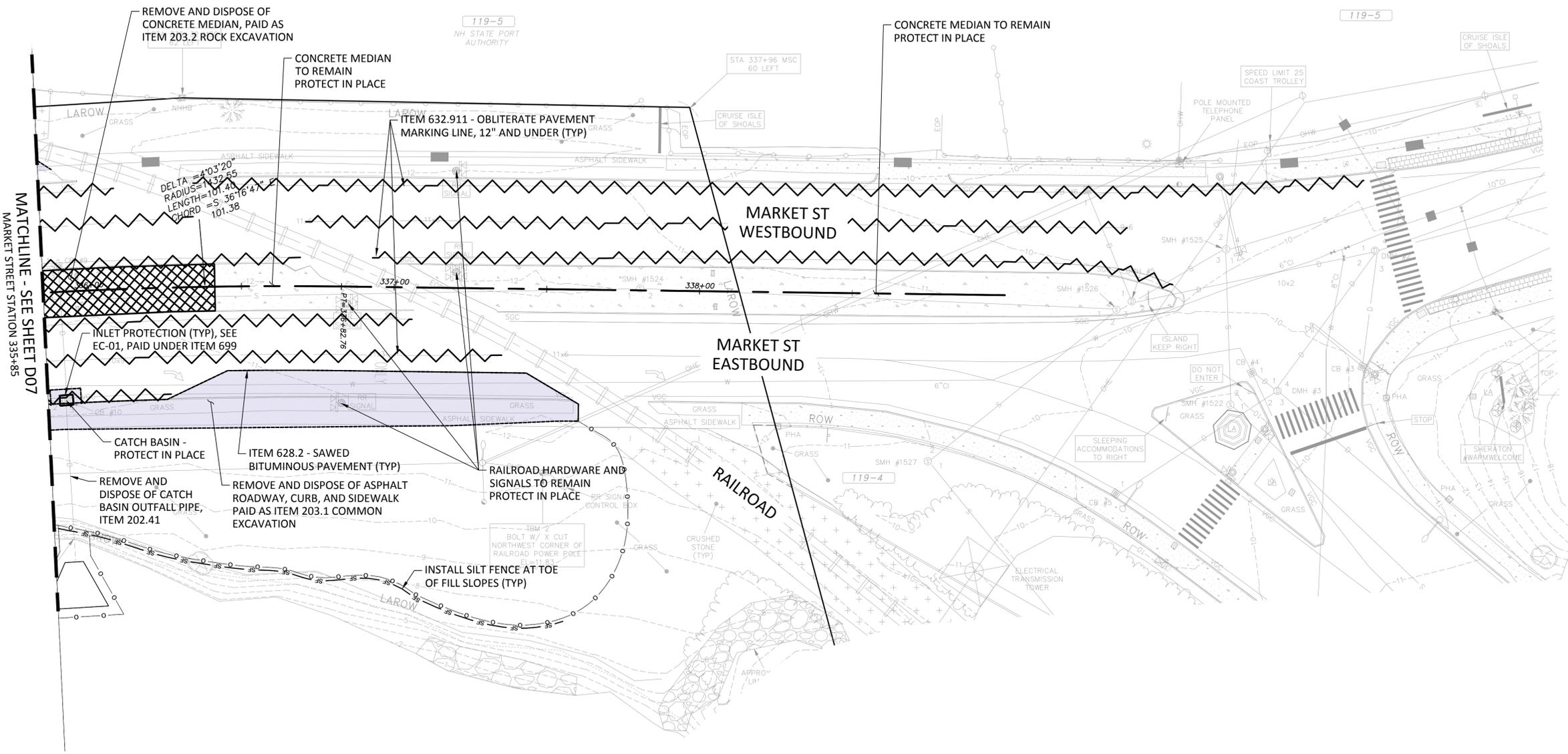
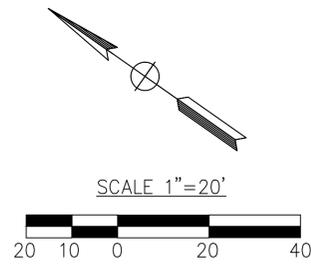


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DEMOLITION AND EROSION CTRL PLAN



MATCHLINE - SEE SHEET D07
MARKET STREET STATION 335+85

- NOTES**
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DEMOLITION AND EROSION CTRL PLAN

DATE: NOVEMBER 2015
 DRAWING No. **D-08**
 SHEET: 14 of 100

EROSION CONTROL NOTES

A. GENERAL NOTES

- DURING CONSTRUCTION, AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND (5 ACRES MAXIMUM) SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO A MAXIMUM OF 72 HOURS BEFORE APPLYING TEMPORARY OR PERMANENT EROSION CONTROL MEASURES. CONFINE PERIOD OF DISTURBED AND UNSTABILIZED SOILS TO A MAXIMUM OF FORTY-FIVE DAYS. ALL DITCHES AND SWALES ARE REQUIRED TO BE STABILIZED PRIOR TO DIRECT RECEIPT OF ANY FLOW.
- INSTALL SILT FENCE WHERE SHOWN PRIOR TO CONSTRUCTION START. INSTALL AROUND ALL EXISTING DRAINAGE STRUCTURES ADJACENT TO PROJECT. DO NOT REMOVE SILT FENCE UNTIL ALL DISTURBED AREAS ARE FULLY VEGETATED WITH TURF OR FULLY STABILIZED WITH OTHER APPLICABLE SURFACE MATERIAL. ALL PONDS ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO ANY OTHER DRAINAGE SYSTEM WORK, INCLUDING DITCH AND SWALE EXCAVATION.
- EROSION AND SEDIMENT CONTROL PRACTICES INCLUDE THE USE OF THE FOLLOWING SILT FENCE BARRIERS, PERMANENT DETENTION/SEDIMENTATION BASIN, GRASS AND/OR ROCK LINED SWALES, DIVERSIONS WITH LEVEL SPREADERS. ALL EROSION CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS CONTAINED IN THE "EROSION AND SEDIMENT CONTROL DESIGN HANDBOOK FOR DEVELOPING AREAS OF NEW HAMPSHIRE", DATED APRIL, 1987, BY USDA-SCS (AVAILABLE FROM THE LOCAL USDA-SCS OFFICE).
- SEE PLANS FOR ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE REQUIRED.
- CONSTRUCTION AREA SHALL BE CONSIDERED STABLE IF:
 - AREAS TO RECEIVE PAVEMENT, COMPACTED BASE COURSE GRAVELS HAVE BEEN INSTALLED
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - CUT AND FILL SLOPES HAVE A MINIMUM OF 3" OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

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- EROSION CONTROL MEASURES MAY BE MODIFIED BY CONTRACTOR IN ACCORDANCE WITH EPA SWPPP, IF NECESSARY.

B. VEGETATIVE MEASURES

- TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON CRITICAL AREAS AND ALL OTHER AREAS TO BE SEEDED. THE STOCKPILE WILL NOT BE COMPACTED AND SHALL BE STABILIZED AGAINST EROSION WITH TEMPORARY SEEDING.

- TEMPORARY SEEDING:
 - BEDDING - REMOVE STONES AND TRASH THAT WILL INTERFERE WITH SEEDING THE AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 3" TO PREPARE SEED BED AND MIX THE FERTILIZER INTO THE SOIL.
 - FERTILIZER - FERTILIZER SHOULD BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING TILLED INTO THE SOIL. A 10-10-10 MIX OF FERTILIZER SHOULD BE APPLIED AT A RATE OF 300 POUNDS PER ACRE (OR 7 POUNDS PER 1,000 S.F.).
 - SEED MIXTURE - USE ANY OF THE FOLLOWING IN UPLAND AREAS:
 - SEEDING RATE:

SPECIES	PER ACRE	1,000 S.F.	DATES	DEPTH
WINTER RYE	112 LBS.	2.5 LBS.	8/15-9/5	
OATS	80 LBS.	2.0 LBS.	SPRING-5/15	
ANNUAL RYE GRASS	40 LBS.	1.0 LBS.	4/15-9/15	WITH MULCH
	0.25 IN.			

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- MULCHING - WHERE IT IS IMPRACTICAL TO INCORPORATE FERTILIZER AND SEED INTO MOIST SOIL, THE SEEDED AREA SHALL BE MULCHED TO FACILITATE GERMINATION. MULCH IN THE FORM OF HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 70 TO 90 LBS. PER 1,000 S.F.

3. PERMANENT SEEDING:

- BEDDING - STONES LARGER THAN 4", TRASH, ROOTS, AND OTHER DEBRIS THAT WILL INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA SHOULD BE REMOVED. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF 4" TO PREPARE A SEEDBED AND MIX FERTILIZER INTO THE SOIL.
- FERTILIZER - LIME AND FERTILIZER SHOULD BE APPLIED EVENLY OVER THE AREA PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:

AGRICULTURAL LIMESTONE @ 100 LBS. PER 1,000 S.F.	10-20-20 FERTILIZER @ 12 LBS. PER 1,000 S.F.
--	--

AGRICULTURAL LIMESTONE @ 100 LBS. PER 1,000 S.F. 10-20-20 FERTILIZER @ 12 LBS. PER 1,000 S.F.

c. SEEDING MIXTURE (RECOMMENDED)

SLOPE WORK	SPECIES	PER ACRE	PER 1,000 S.F.	USE
CROWN VETCH	PERENNIAL RYE GRASS	15	0.34	ALL SLOPE
	CREeping RED FESCUE	30	0.69	
	WORK	35	0.80	
	RED TOP	5	0.11	
	ALSIKE CLOVER	5	0.11	
TREATMENT SWALES	BIRDSFOOT TREFOIL	5	0.11	TREATMENT SWALES
	TOTAL	95	2.18	

TREATMENT SWALES	SPECIES	PER ACRE	PER 1,000 S.F.	USE
TREATMENT SWALES	TALL FESCUE	35	0.80	TREATMENT SWALES
	SWITCH GRASS	35	0.80	
	JAPANESE MILLET	90	2.00	
	TOTAL	160	3.60	

- MULCHING - MULCH SHOULD BE USED ON HIGHLY ERODIBLE SOILS, ON CRITICALLY ERODING AREAS, AND ON AREAS WHERE CONSERVATION OF MOISTURE WILL FACILITATE PLANT ESTABLISHMENT.

TYPE	RATE PER 1,000 S.F.	USE AND COMMENTS
HAY OR STRAW	70 TO 90 LBS.	MUST BE DRY AND FREE FROM MOLD. MAY BE USED WITH PLANTINGS

WOOD CHIPS OR BARK MULCH	460 TO 920 LBS.	USED MOSTLY WITH TREES AND SHRUB PLANTINGS
JUTE AND FIBROUS MATTING	AS PER MANUFACTURER SPECIFICATIONS	USED IN SLOPE AREAS WATER COURSES, AND OTHER AREAS.
CRUSHED STONE	SPREAD MORE 1/4" TO 1-1/2" DIA THAN 1/2" THICK EFFECTIVE IN CONTROLLING WIND AND WATER EROSION	

e. SODDING - SODDING IS DONE WHERE IT IS DESIRABLE TO RAPIDLY ESTABLISH COVER ON A DISTURBED AREA. SODDING AN AREA MAY BE SUBSTITUTED FOR PERMANENT SEEDING PROCEDURES ANYWHERE ON SITE. BED PREPARATION, FERTILIZING, AND PLACEMENT OF SOD SHALL BE PERFORMED ACCORDING TO THE S.C.S. HANDBOOK.

C. STRUCTURAL MEASURES

- STRAW BALE BARRIERS/SILT SCREEN FENCES: STRAW BALE BARRIERS AND/OR SILT SCREEN FENCES ARE TO BE INSTALLED IN THE AREAS SHOWN ON THE PLAN. THEY ARE INTENDED PRIMARILY TO INTERCEPT AND FILTER SMALL VOLUMES OF "SHEET FLOWING" RUNOFF, OR AS SEDIMENT TRAPS IN SMALL SWALES. STRAW BALES HAVE A USEFUL LIFE OF 3 MONTHS WHEN WET, AND THEREFORE, MUST BE INSPECTED AND REPAIRED OR REPLACED PERIODICALLY. SILT SCREEN FENCES WILL FUNCTION 6 MONTHS OR LONGER IF KEPT FREE OF SEDIMENT ACCUMULATIONS (SEE DETAILS FOR ADDITIONAL INFORMATION).
- SWALES: SWALES SHALL BE INSTALLED EARLY IN THE CONSTRUCTION SEQUENCE AND BEFORE ROUGH GRADING AND SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. TEMPORARY AND/OR PERMANENT SWALES ARE TO BE INSTALLED AS SHOWN ON THE PLAN. SWALES ARE USED TO CONVERT SHEET FLOW TO CHANNEL FLOW AND CONVEY THE RUNOFF TO A PERMANENT CHANNEL, STORM DRAIN, OR DETENTION/SEDIMENT STRUCTURE. SWALES ARE INTENDED TO INTERCEPT RUNOFF AND DIVERT IT FROM AN EXPOSED OR NEWLY SEEDED SLOPE TOWARD AN ACCEPTABLE OUTLET OR TO REDUCE THE VELOCITY OF RUNOFF FLOWING DOWN FROM A DRAINAGE AREA.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED OF 1.5 INCH STONE ACROSS THE FULL WIDTH OF THE VEHICLE INGRESS / EGRESS AREA. THE STONE PAD SHOULD BE AT LEAST 50 FEET LONG, 24 FEET WIDE AND AT LEAST 6 INCHES THICK. ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD.
- CATCH BASIN SEDIMENT FILTER: STONE CATCH BASIN SEDIMENT FILTERS ARE TO BE INSTALLED IN THE AREAS SHOWN ON THE PLAN. THEY ARE INTENDED PRIMARILY FILTER SMALL VOLUMES OF "SHEET FLOWING" RUNOFF. CATCH BASIN SEDIMENT FILTERS SHALL BE CONSTRUCTED OF FILTER FABRIC BEING INSTALLED OVER INLET GRATE, AND 3/4" WASHED CRUSHED STONE, 12 INCHES THICK. CATCH BASIN SEDIMENT FILTERS WILL LAST LONGER IF KEPT FREE OF SEDIMENT ACCUMULATIONS (SEE DETAILS FOR ADDITIONAL INFORMATION).

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D. MAINTENANCE

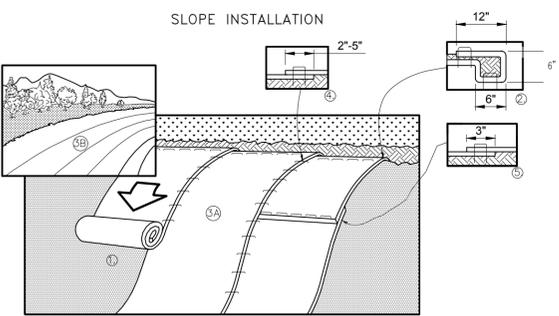
- DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED:
 - SEEDED AREAS WILL BE FERTILIZED AND WILL BE SEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.
 - ADDITIONAL STONE MAY HAVE TO BE ADDED TO THE CONSTRUCTION ENTRANCE, ROCK LINED SWALES, ETC., PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE EROSION CONTROL STRUCTURE.
 - ALL DIVERSION CHANNELS AND SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
 - ALL SILT SCREEN FENCES WILL BE CHECKED WEEKLY. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER.
 - EROSION CONTROL MEASURES TO BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL

E. WINTER CONSTRUCTION

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL (NHDOT ITEM 304.3).

CONSTRUCTION SEQUENCE

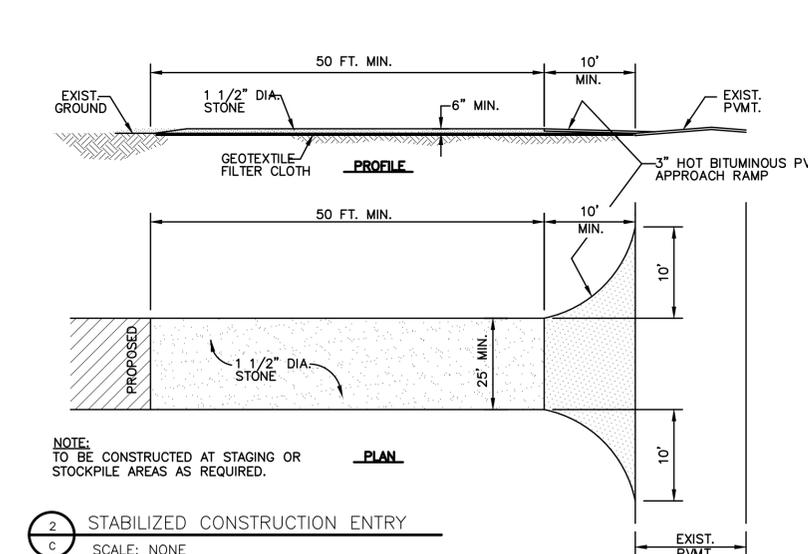
- INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, AND INLET PROTECTION BARRIERS IN LOCATIONS SHOWN ON PLANS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS.
- STRIP TOPSOIL AND STOCKPILE ONSITE. STABILIZE STOCKPILES; SEED STOCKPILES AND CONSTRUCT SILT FENCE PERIMETER AROUND STOCKPILES. TOPSOIL TO BE REUSED ON SITE.
- CLEAR AND GRUB. MINIMIZE EXTENT AND DURATION OF EXPOSURE OF DISTURBED AREAS.
- CONSTRUCT CUT AND FILL SLOPES. FILL WETLAND IN ACCORDANCE WITH DETAIL. APPLY TEMPORARY (OR PERMANENT) SEED AND MULCH WITHIN 72 HOURS OF THEIR CONSTRUCTION.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS AND AFTER A STORM EVENT GREATER THAN 0.5".
- CONSTRUCT UTILITY INFRASTRUCTURE, FINE GRADE, AND INSTALL BINDER COURSE PAVING.
- FINISH GRADE TO PREPARE SITE FOR PAVING AND LANDSCAPING.
- INSTALL LANDSCAPE PLANTINGS. INSTALL SCREENED LOAM (4" MIN.) ON ALL OTHER DISTURBED SURFACES, APPLY PERMANENT SEEDING AND MULCH.
- INSTALL FINISH PAVING.
- REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.



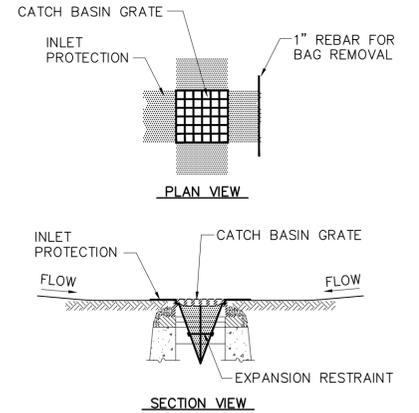
SLOPE INSTALLATION SPECIFICATIONS

- EROSION CONTROL BLANKETS SHALL BE AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

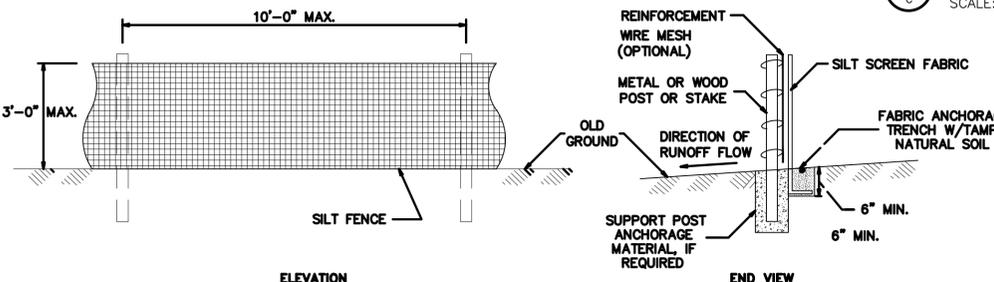
3 SLOPE PROTECTION EROSION CONTROL MATTING SCALE: NONE



2 STABILIZED CONSTRUCTION ENTRY SCALE: NONE



4 CATCH BASIN INLET PROTECTION SACK SCALE: NONE



1 SILT FENCE DETAIL SCALE: NONE

no.	revision	revision	date	by

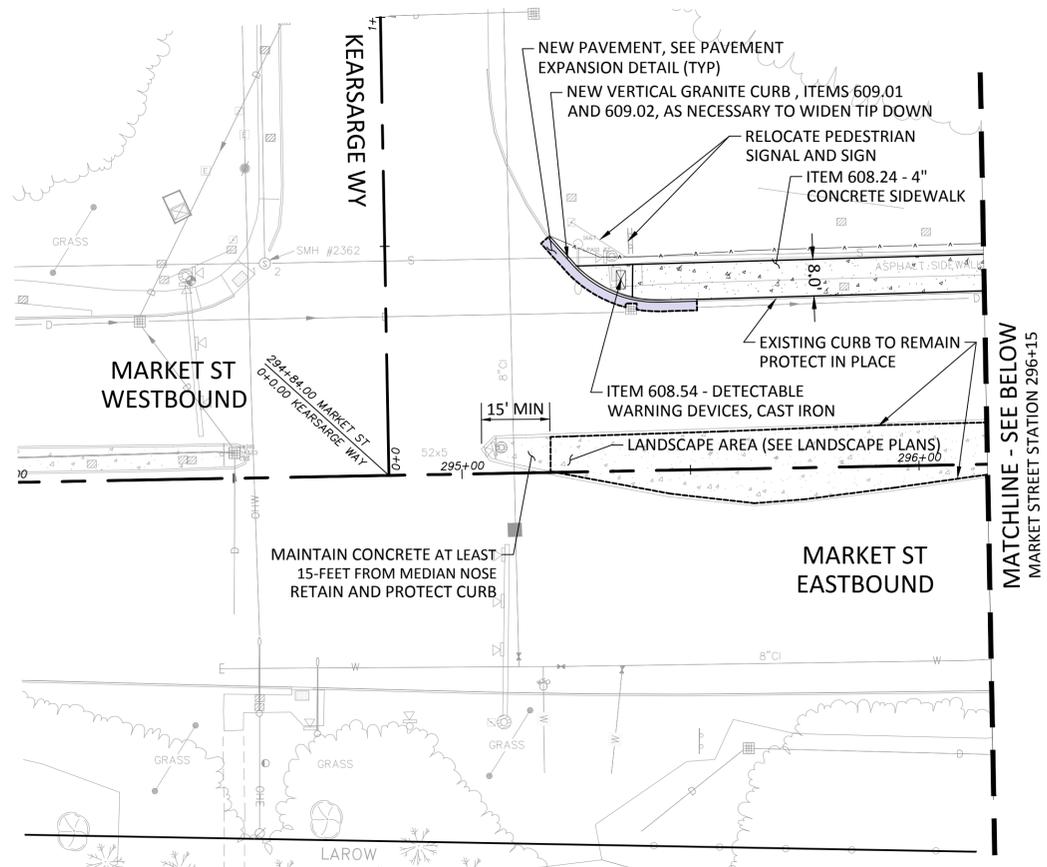


PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: 1"=20'
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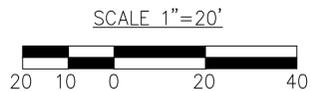
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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 EROSION CONTROL DETAILS



- NOTES
1. FOR GENERAL NOTES SEE DRAWING NO. G-02
 2. FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 3. FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 4. ALL SIDEWALK CURB RAMPS SHALL CONFORM TO THE APPROPRIATE GRADE AND LAYOUT AS ILLUSTRATED IN THE NHDOT STANDARD "SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS".
 5. ITEM 616.401 SHALL INCLUDE DESIGN AND INSTALLATION OF A NEW FOUNDATION AND VERIFICATION OF THE EXISTING EQUIPMENT AND ANY REQUIRED ALTERATIONS. DESIGN AND VERIFICATION SHALL BE STAMPED AND SIGNED BY A REGISTERED NEW HAMPSHIRE ENGINEER.



no.	revision	revision	date	by

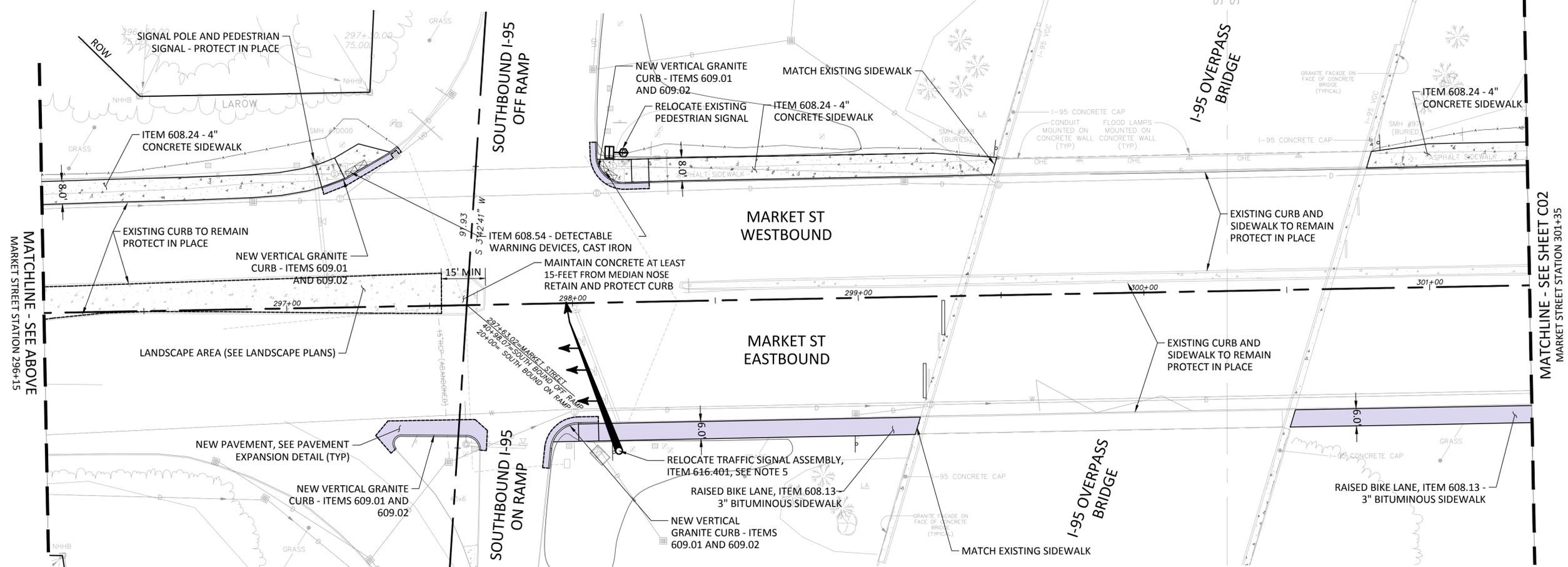


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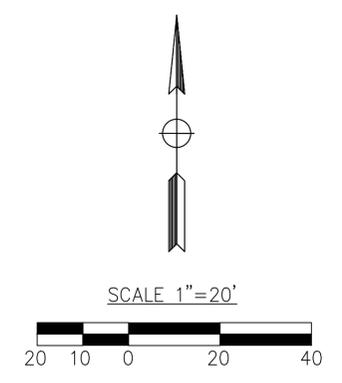
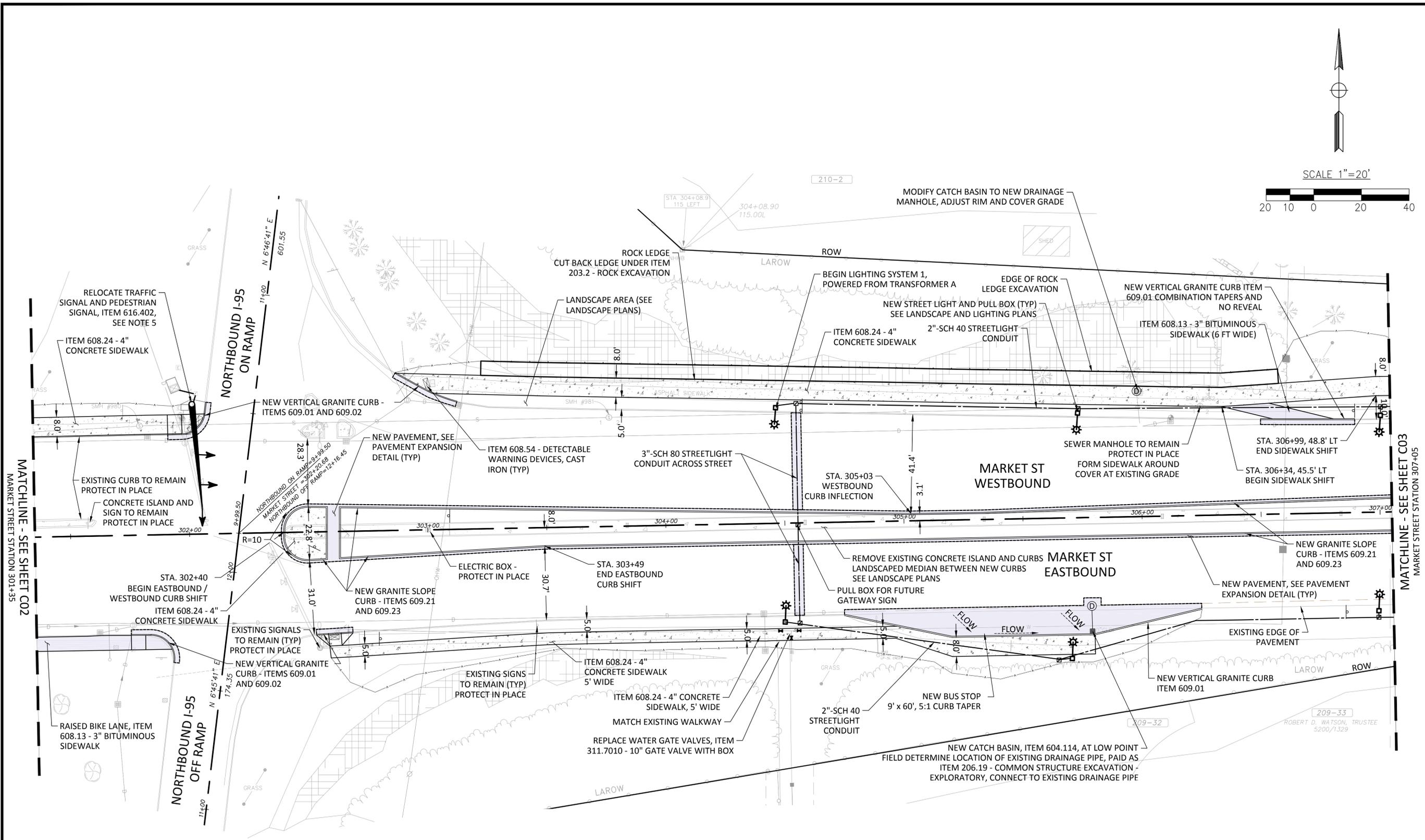
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CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

ROADWAY LAYOUT PLAN



- NOTES**
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 5. ITEM 616.402 SHALL INCLUDE DESIGN AND INSTALLATION OF A NEW FOUNDATION AND VERIFICATION OF THE EXISTING EQUIPMENT AND ANY REQUIRED ALTERATIONS. DESIGN AND VERIFICATION SHALL BE STAMPED AND SIGNED BY A REGISTERED NEW HAMPSHIRE ENGINEER.

no.	revision	revision	date	by

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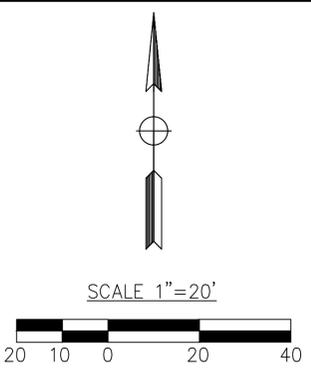
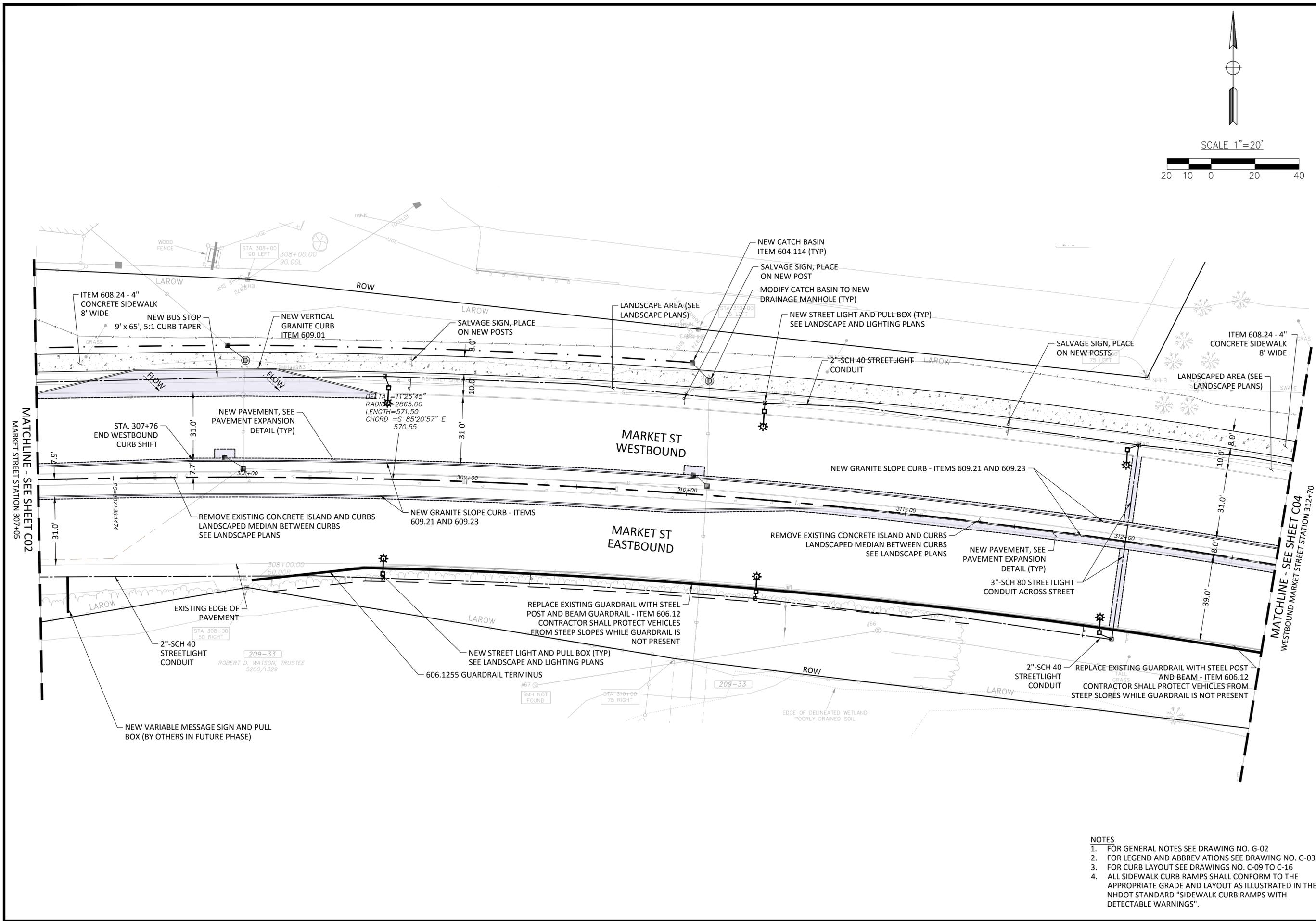
CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

ROADWAY LAYOUT PLAN

DATE: NOVEMBER 2015
DRAWING No. C-02
SHEET: 17 of 100

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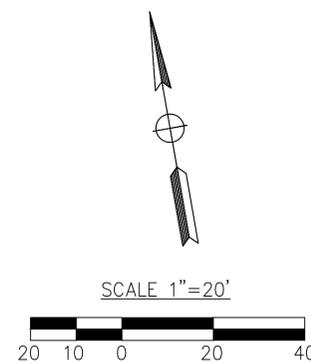
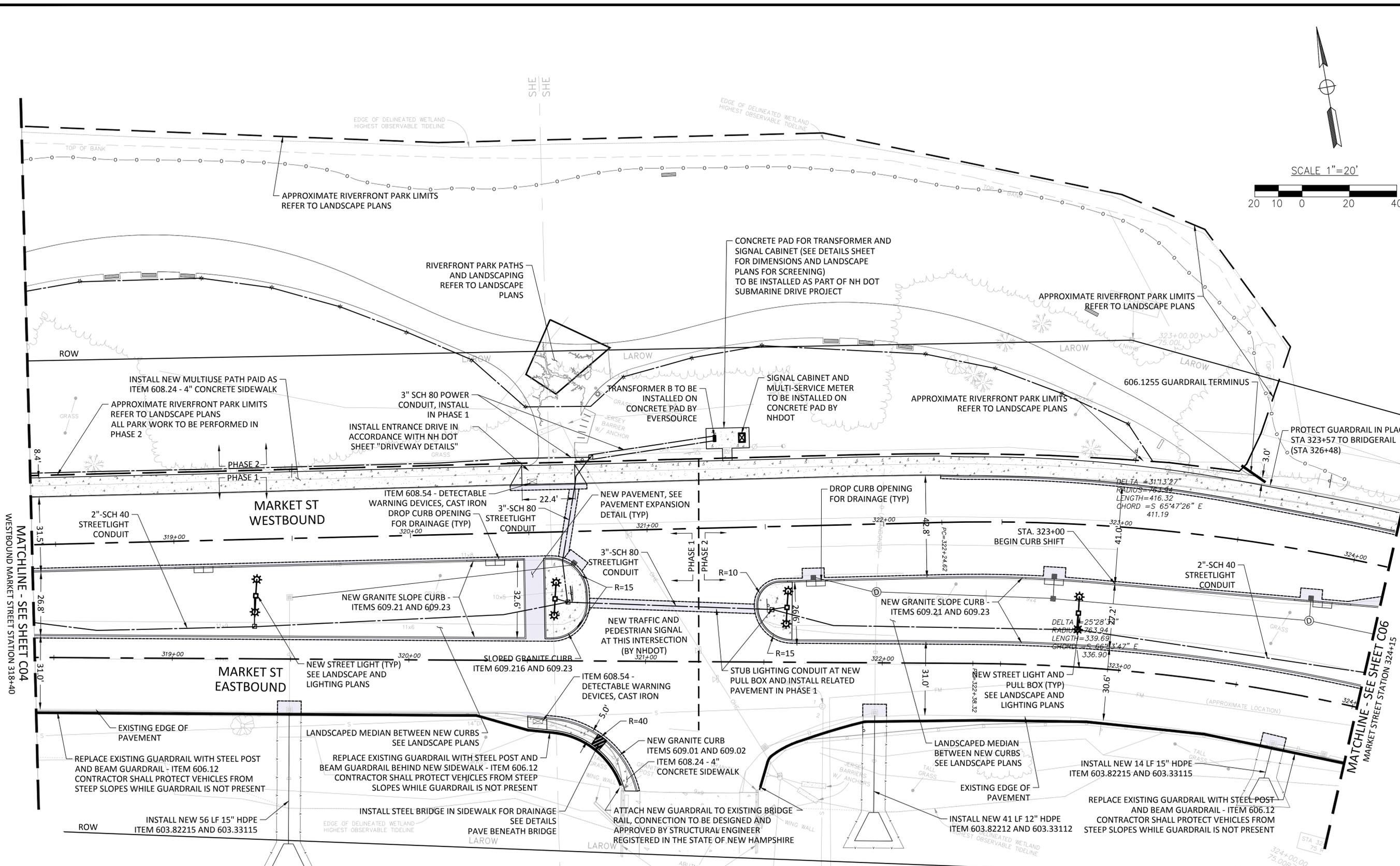
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
ROADWAY LAYOUT PLAN

DATE: NOVEMBER 2015
 DRAWING No. **C-03**

SHEET: 18 of 100

- NOTES**
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 - ALL SIDEWALK CURB RAMPS SHALL CONFORM TO THE APPROPRIATE GRADE AND LAYOUT AS ILLUSTRATED IN THE NHDOT STANDARD "SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS".

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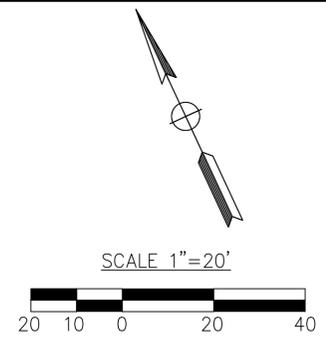
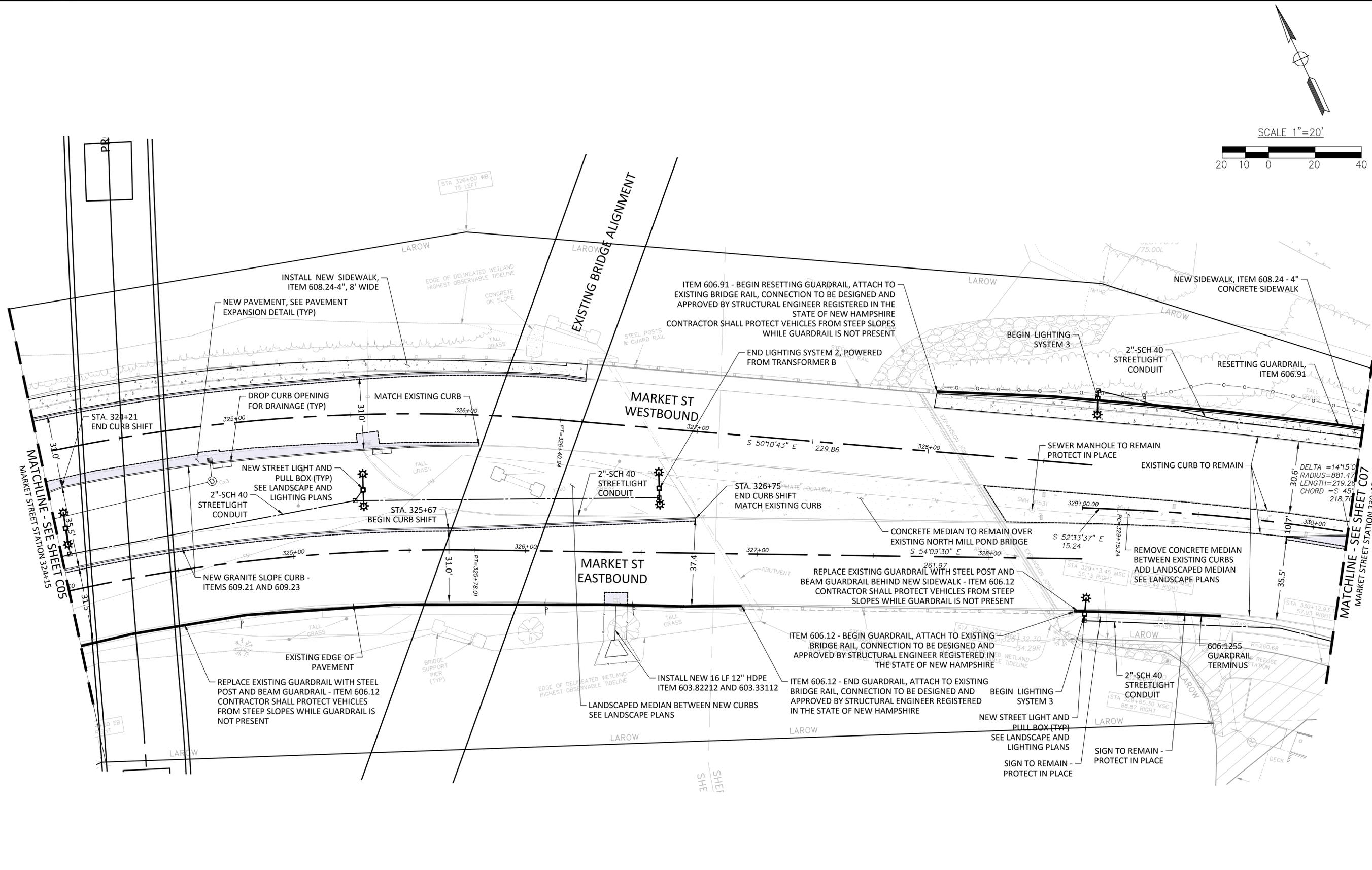
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MARKET STREET GATEWAY
ROADWAY LAYOUT PLAN

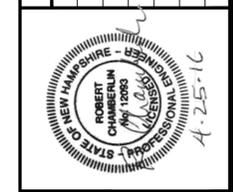
- NOTES**
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 - IF, DURING SITE PREPARATION AND DEMOLITION, SIGNIFICANT TREES (3-4" CALIPER MIN) ARE LOCATED THAT FALL OUTSIDE THE AREA DISTURBED BY GRADING (AS SHOWN ON L2.4 AND L2.5 GRADING & DRAINAGE PLANS), CONSULT WITH LANDSCAPE ARCHITECT FOR FURTHER EVALUATION OF THE TREE FOR POSSIBLE PROTECTION
 - ALL SIDEWALK CURB RAMPS SHALL CONFORM TO THE APPROPRIATE GRADE AND LAYOUT AS ILLUSTRATED IN THE NHDOT STANDARD "SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS".

DATE: NOVEMBER 2015
DRAWING No.
C-05
SHEET: 20 of 100

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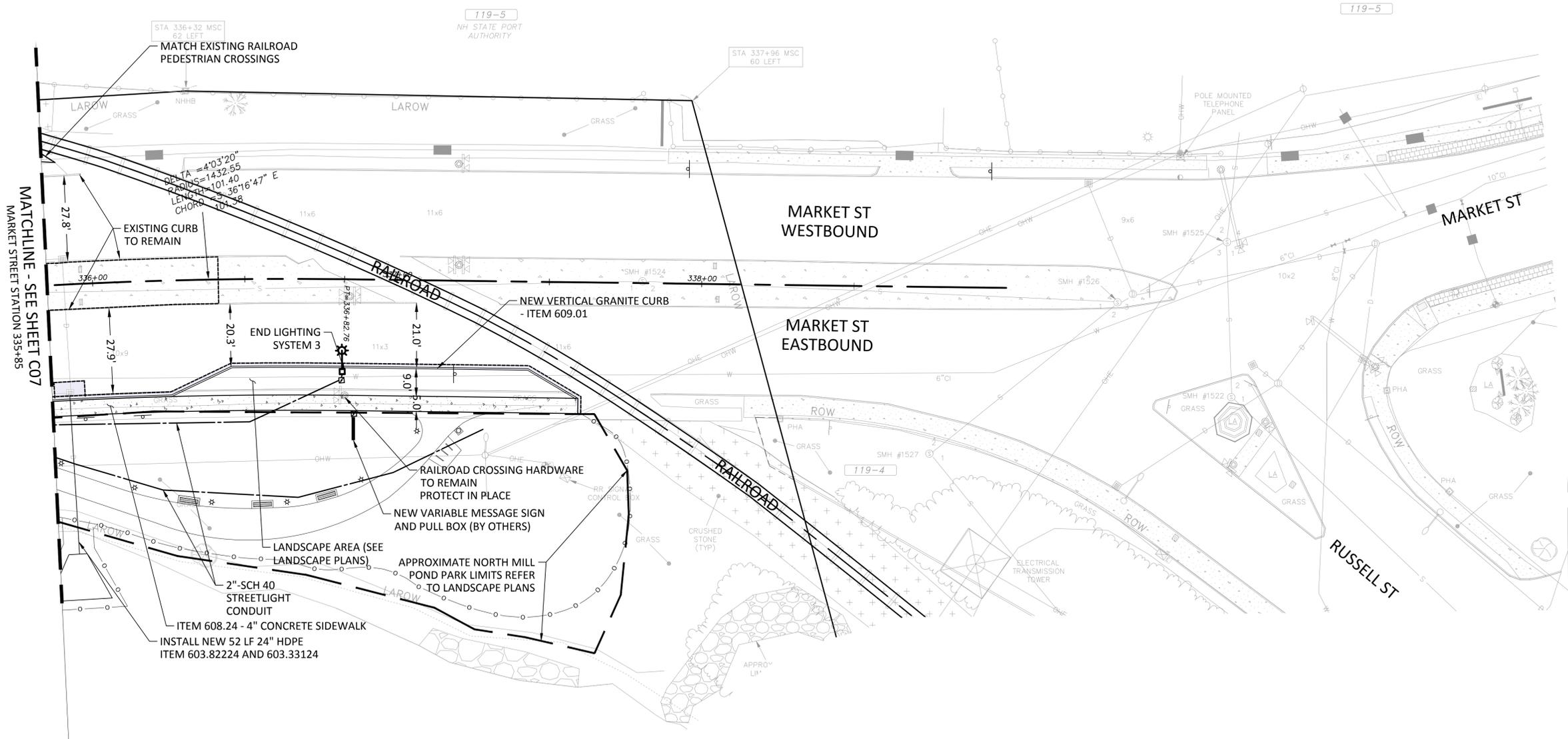
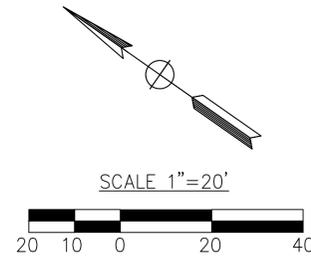
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MARKET STREET GATEWAY
ROADWAY LAYOUT PLAN

- NOTES**
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 2. FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
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 4. ALL SIDEWALK CURB RAMPS SHALL CONFORM TO THE APPROPRIATE GRADE AND LAYOUT AS ILLUSTRATED IN THE NHDOT STANDARD "SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS".

DATE: NOVEMBER 2015
DRAWING No.
C-06



MATCHLINE - SEE SHEET C07
MARKET STREET STATION 335+85

no.	revision	date	by



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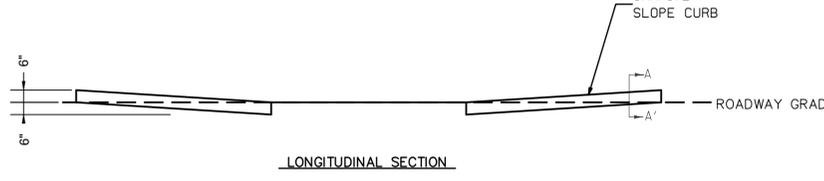
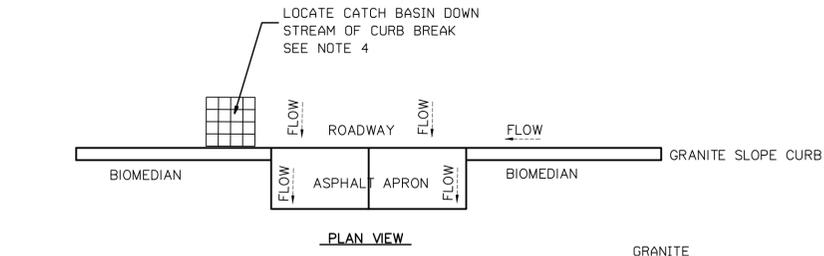
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MARKET STREET GATEWAY
ROADWAY LAYOUT PLAN

- NOTES**
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 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 - ALL SIDEWALK CURB RAMPS SHALL CONFORM TO THE APPROPRIATE GRADE AND LAYOUT AS ILLUSTRATED IN THE NHDOT STANDARD "SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS".

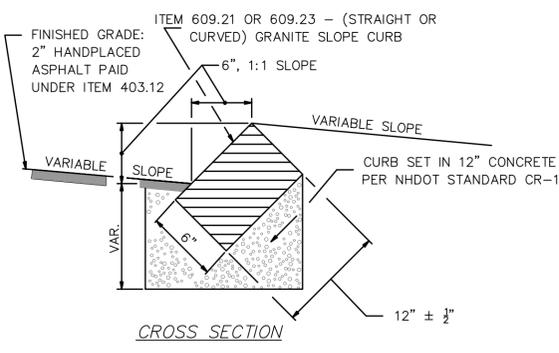
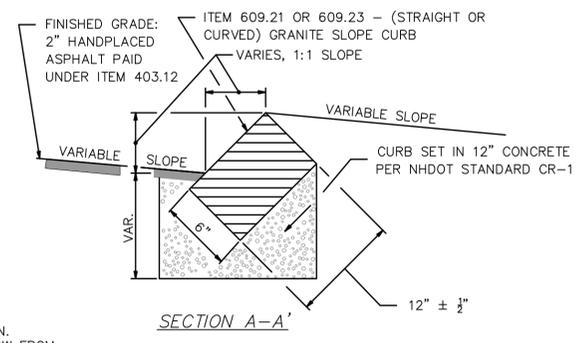
DATE: NOVEMBER 2015
DRAWING No.
C-08
SHEET: 23 of 100



- NOTES:**
- CENTER SECTION OF CURB SHALL BE FLUSH WITH ROADWAY AND BIOMEDIAN.
 - FLOW DIRECTION MAY DIFFER DUE TO ROADWAY GRADE. RUNOFF SHALL FLOW FROM ROADWAY INTO BIOMEDIAN.
 - MINIMUM SLOPE OF ASPHALT APRON SHALL BE 4% INTO BIOMEDIAN.
 - IF A CATCHBASIN IS AT LOW POINT, THE CATCHBASIN SHALL BE LOCATED IN THE CENTER OF A CURB BREAK.

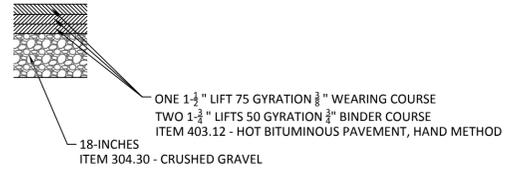
DETAIL A: CURB BREAKS INTO BIOSWALE

NOT TO SCALE



DETAIL C: SLOPED GRANITE CURB

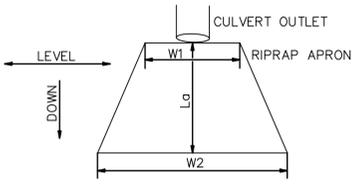
NOT TO SCALE



- NOTES:**
- PAVEMENT SHALL BE ITEM 403.11 OR 403.12 AS APPROPRIATE

DETAIL D: PAVEMENT EXPANSION

NOT TO SCALE

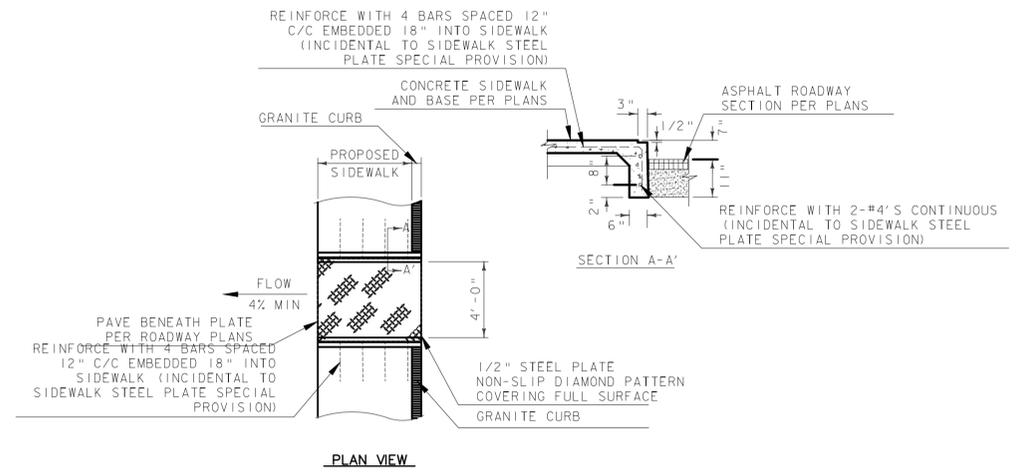


- NOTES:**
- DIMENSIONS SHALL BE AS SPECIFIED IN APRON DIMENSIONS TABLE
 - RIPRAP SHALL BE ITEM 583.1 - RIPRAP A
 - DEPTH OF STONE SHALL BE AT LEAST 0.5 FEET AND NOT MORE THAN TWO FEET
 - BEFORE INSTALLATION OF RIPRAP, GROUND SHALL BE LEVELED PERPENDICULAR TO THE DIRECTION OF FLOW.

DETAIL E: RIPRAP OUTFALL APRON

NOT TO SCALE

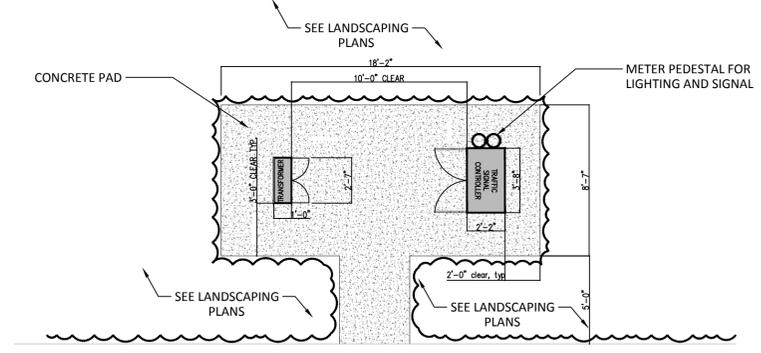
APRON DIMENSIONS TABLE			
ALL DIMENSIONS IN FEET			
PIPE	W1	W2	La
P18	4	17	13
P19	3	10	7
P20	4	16	12
P21	4	16	12
P22	4	16	12
P23	4	13	9
P24	3	10	7
P25	6	21	15



- NOTES:**
- SECURE STEEL PLATE TO CONCRETE WITH EPOXY AND FASTENERS.
 - LOCATED AT STA 320+81

DETAIL B: SIDEWALK STEEL PLATE

NOT TO SCALE



- NOTES:**
- CONCRETE PAD SHALL CONFORM TO EVERSOURCE/PSNH STANDARDS FOR TRANSFORMER AND CITY OF PORTSMOUTH STANDARDS FOR TRAFFIC SIGNAL CONTROLLER.
 - TRANSFORMER TO BE INSTALLED BY NH DOT SUBMARINE WAY PROJECT. COORDINATE WITH NH DOT FOR TRANSFORMER REQUIREMENTS.

DETAIL F: TRANSFORMER/CONTROLLER PAD

NOT TO SCALE

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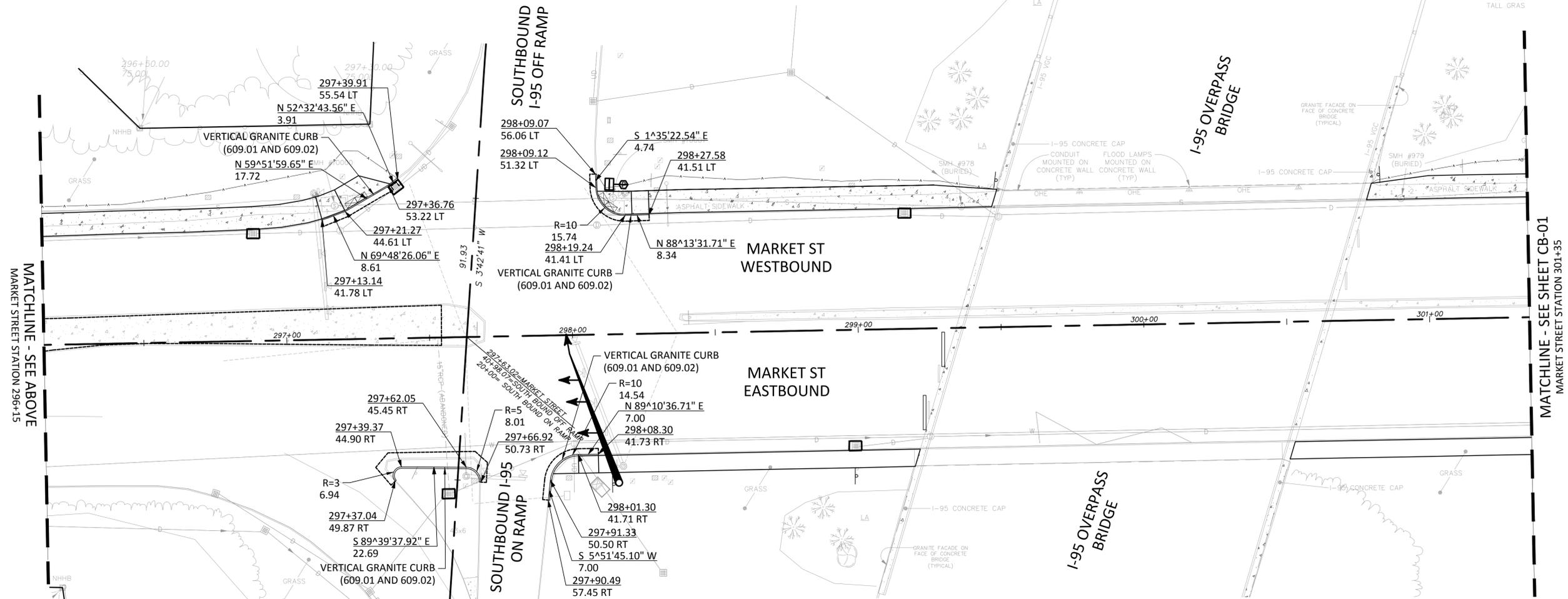
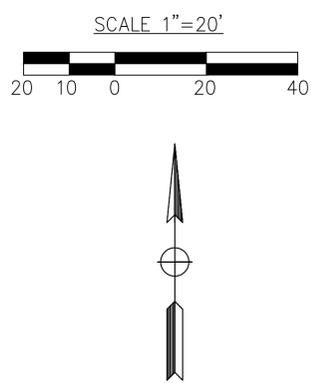
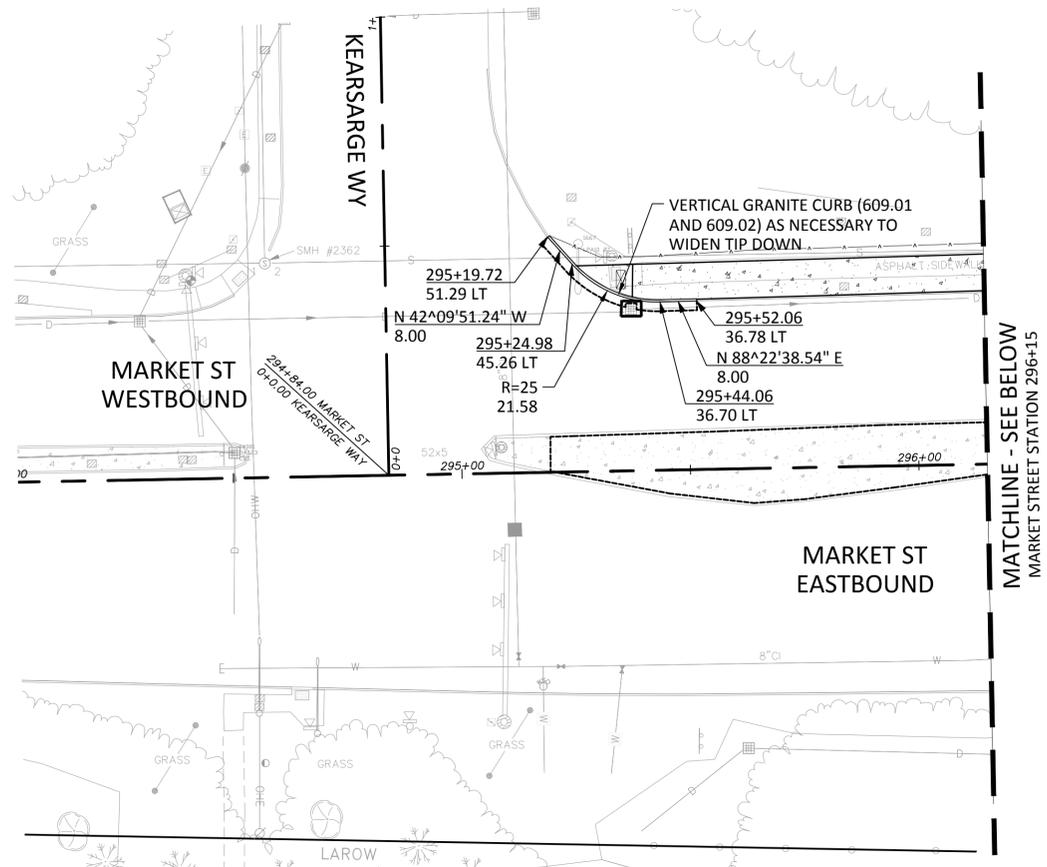
CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

ROADWAY DETAILS

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no.	revision	revision	date

STATE OF NEW HAMPSHIRE - REGISTERED PROFESSIONAL ENGINEER

ROBERT J. HARRIS
No. 12893
Exp. 12/31/2015

A. 2.5.1C

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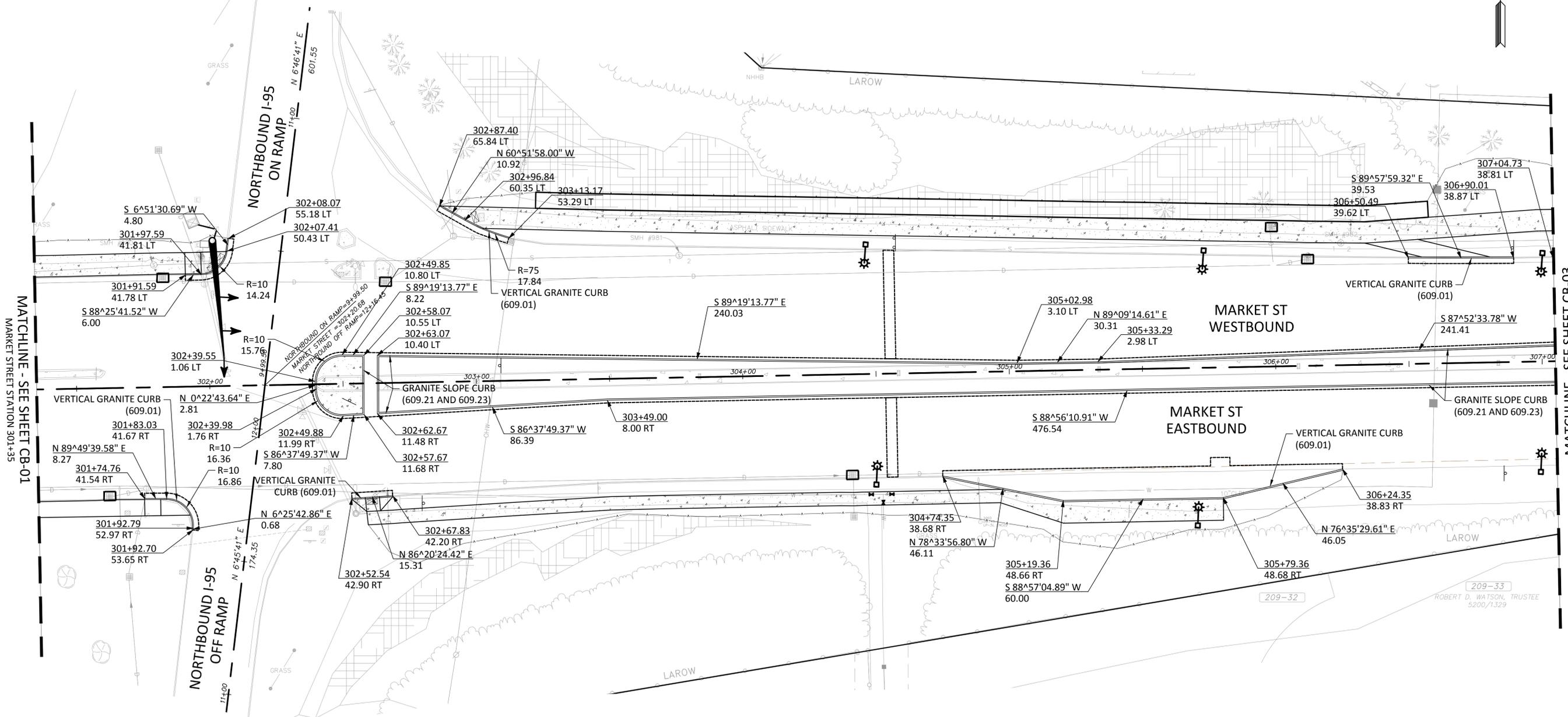
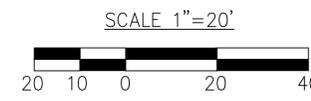
MARKET STREET GATEWAY

CURB LAYOUT PLAN

DATE: NOVEMBER 2015

DRAWING No.
CB-01

SHEET: 25 of 100



MATCHLINE - SEE SHEET CB-01
MARKET STREET STATION 301+35

MATCHLINE - SEE SHEET CB-03
MARKET STREET STATION 307+05

no.	revision	date	by

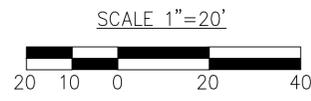
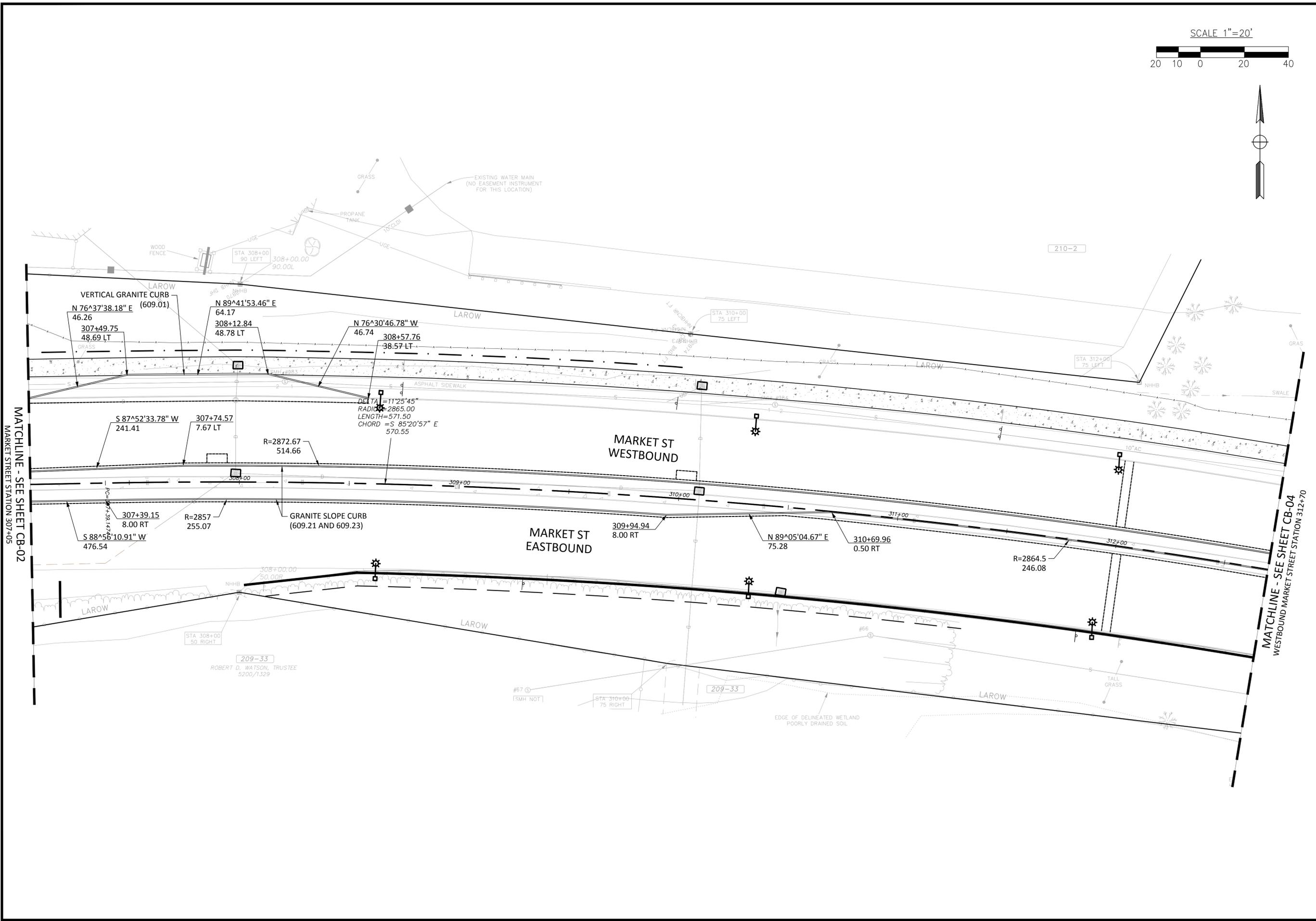


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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CURB LAYOUT PLAN



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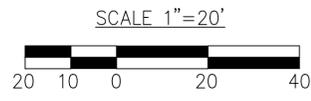
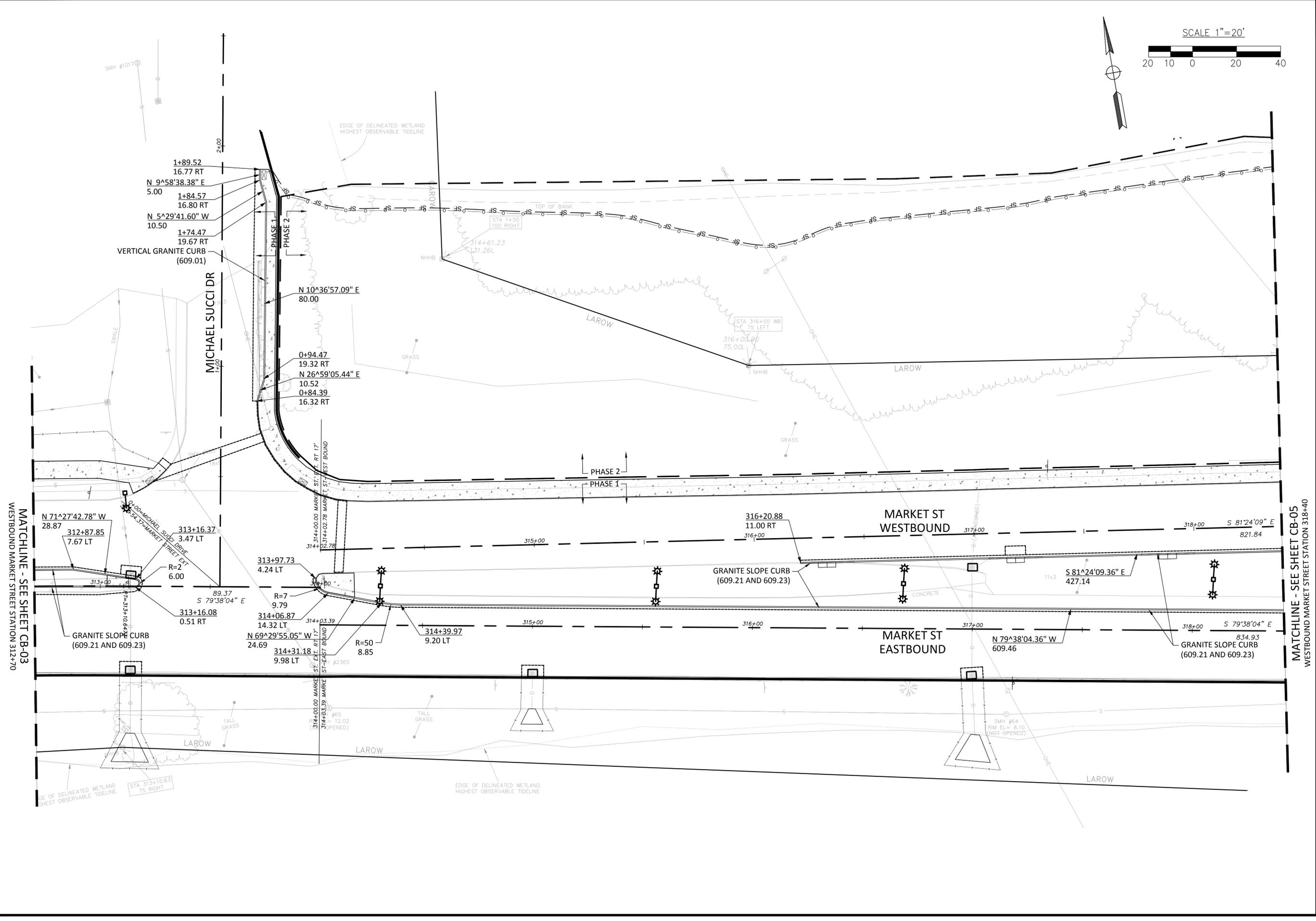
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MARKET STREET GATEWAY

CURB LAYOUT PLAN



no.	revision	date	by



PROJECT No.	13121
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SCALE:	1"=20'

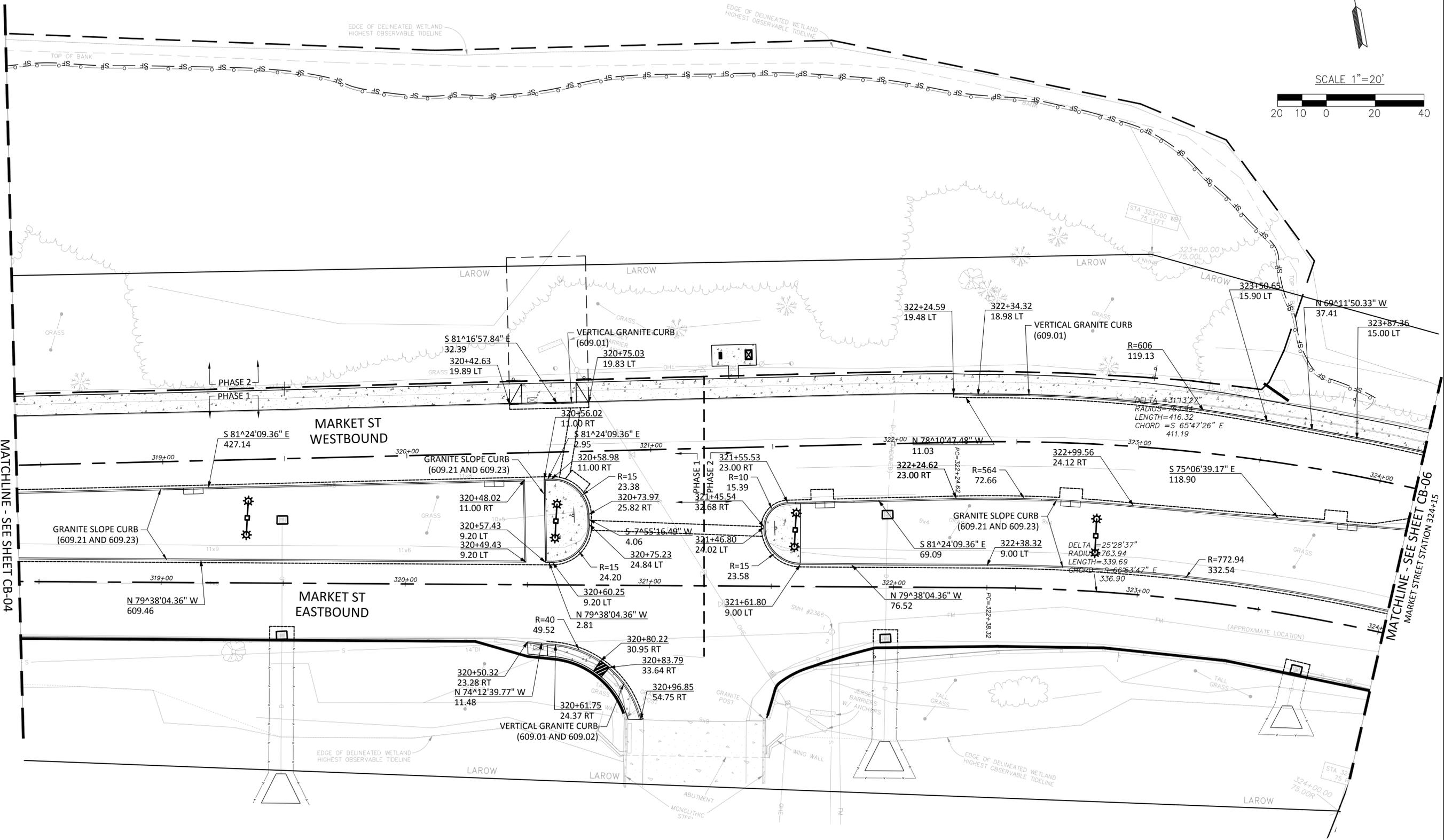
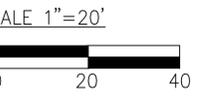
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MARKET STREET GATEWAY
CURB LAYOUT PLAN

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MATCHLINE - SEE SHEET CB-04
WESTBOUND MARKET STREET STATION 318+40



no.	revision	date	by



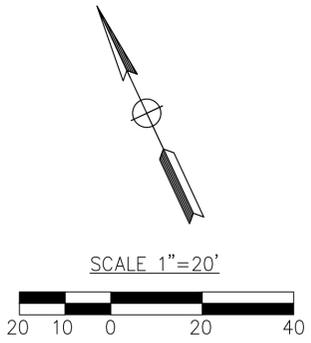
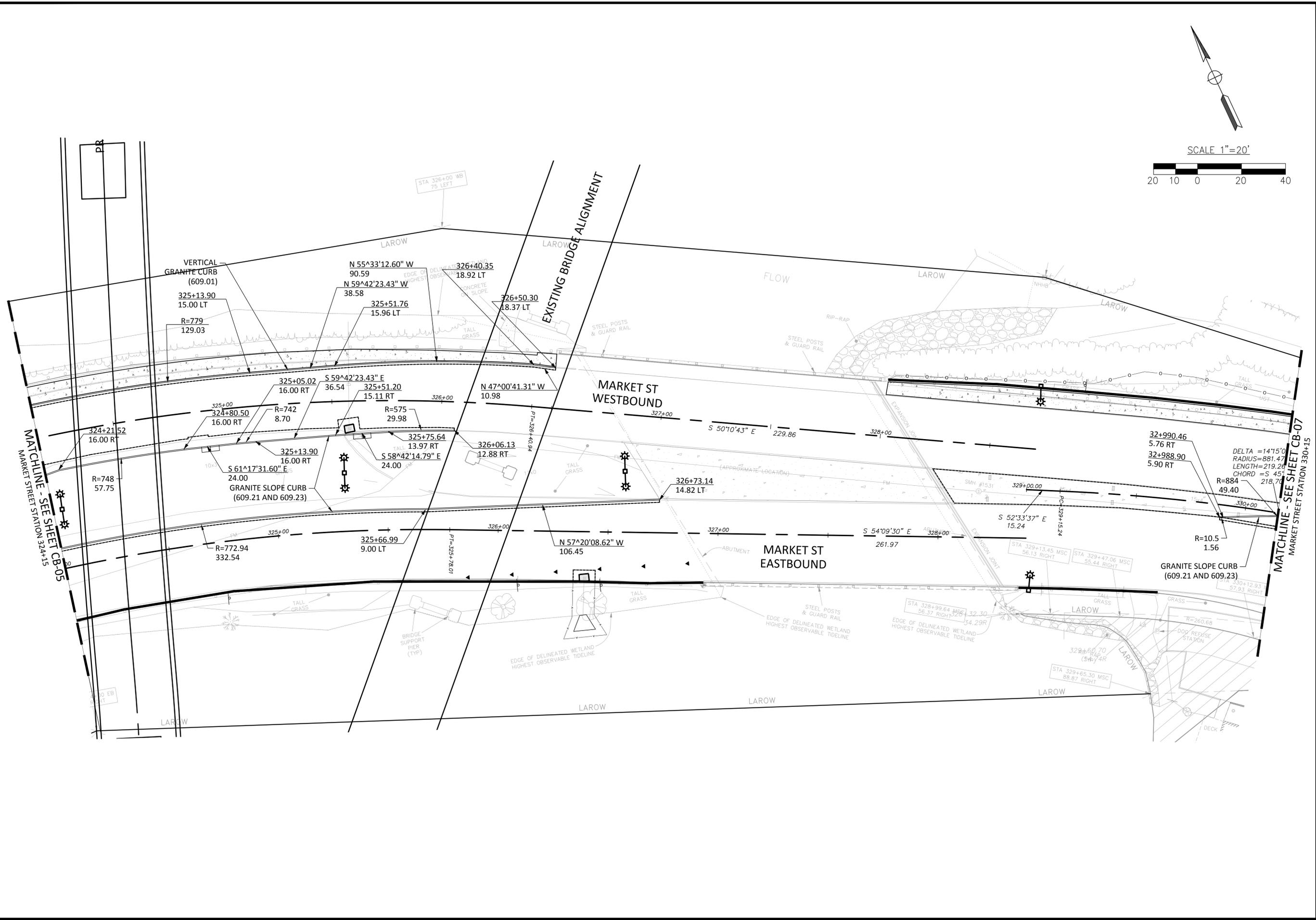
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MARKET STREET GATEWAY
CURB LAYOUT PLAN

DATE: NOVEMBER 2015
 DRAWING No. **CB-05**
 SHEET: 29 of 100



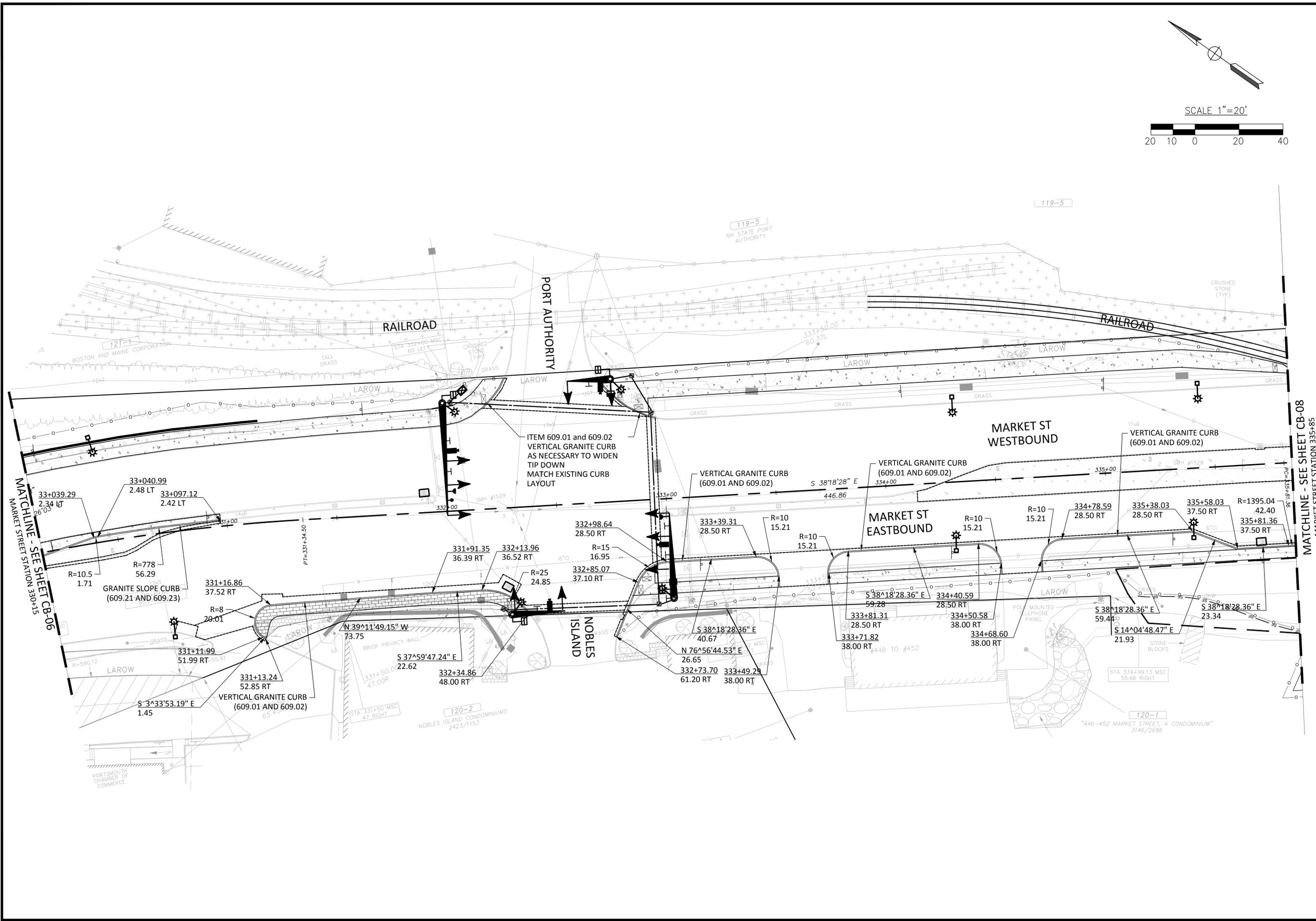
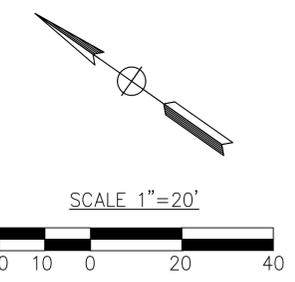
no.	revision	date	by

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 CHECKED BY: ...
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CURB LAYOUT PLAN



no.	revision	date	by



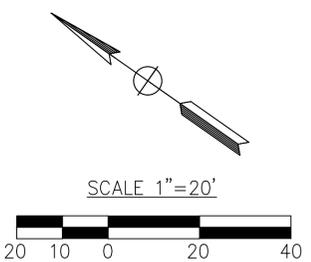
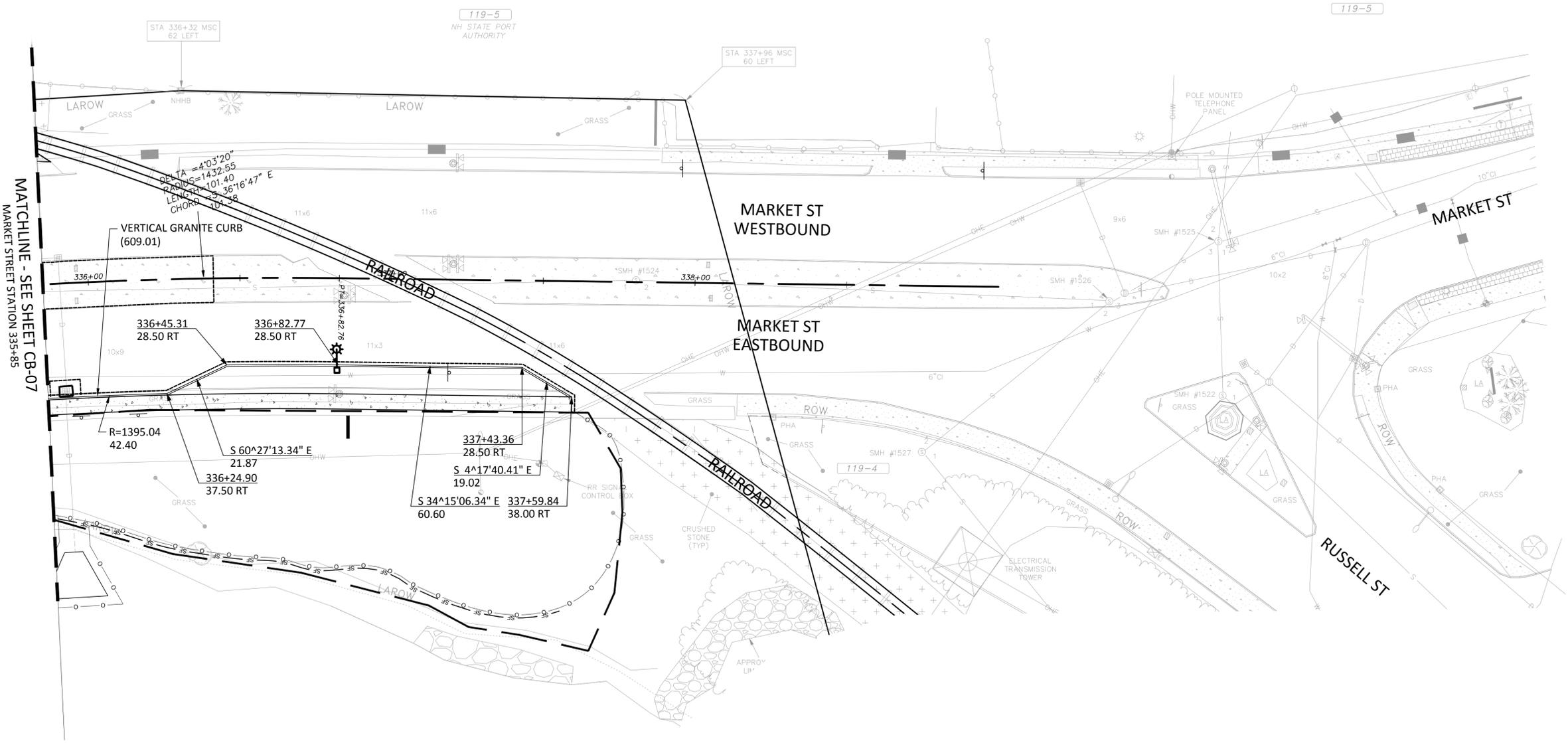
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MARKET STREET GATEWAY
CURB LAYOUT PLAN

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MATCHLINE - SEE SHEET CB-07
MARKET STREET STATION 335+85

no.	revision	revision	date	by



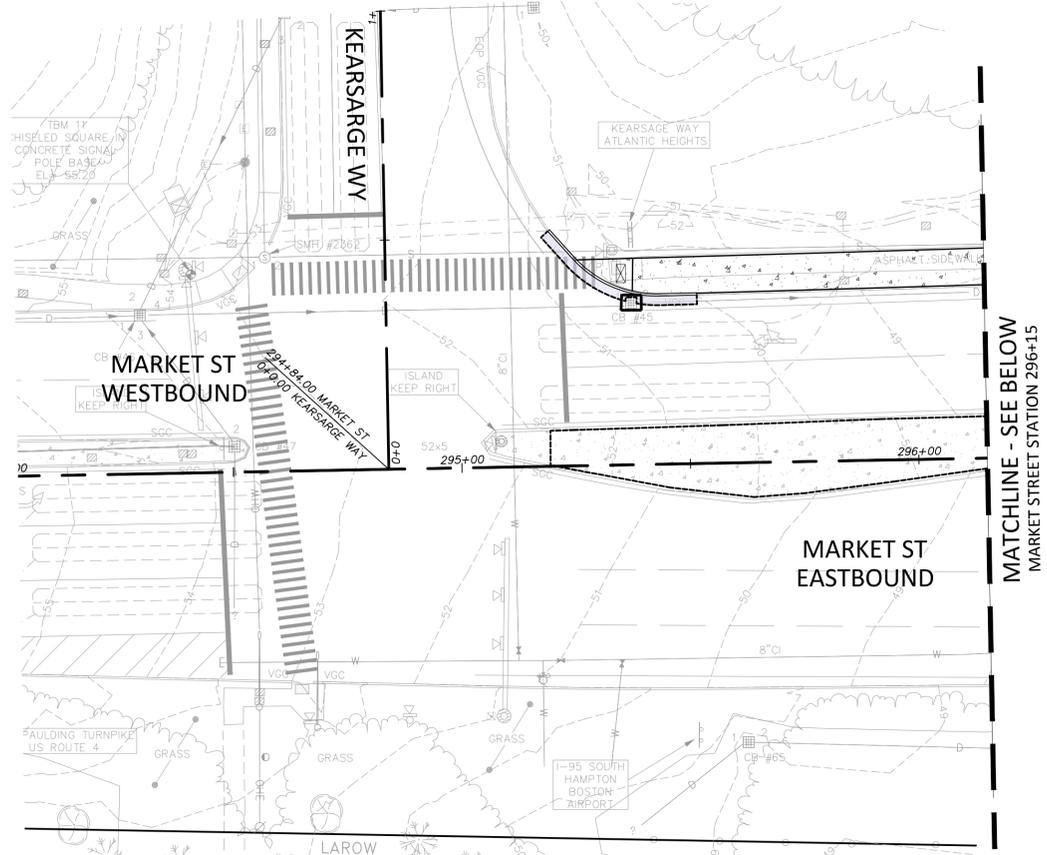
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SCALE:	1"=20'

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CURB LAYOUT PLAN

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**NO DRAINAGE ENHANCEMENTS
ON THIS SHEET**

NOTES
SEE PIPE LAYOUT TABLE ON SHEET DR-08
FOR PIPE INVERT ELEVATIONS AND
MATERIALS

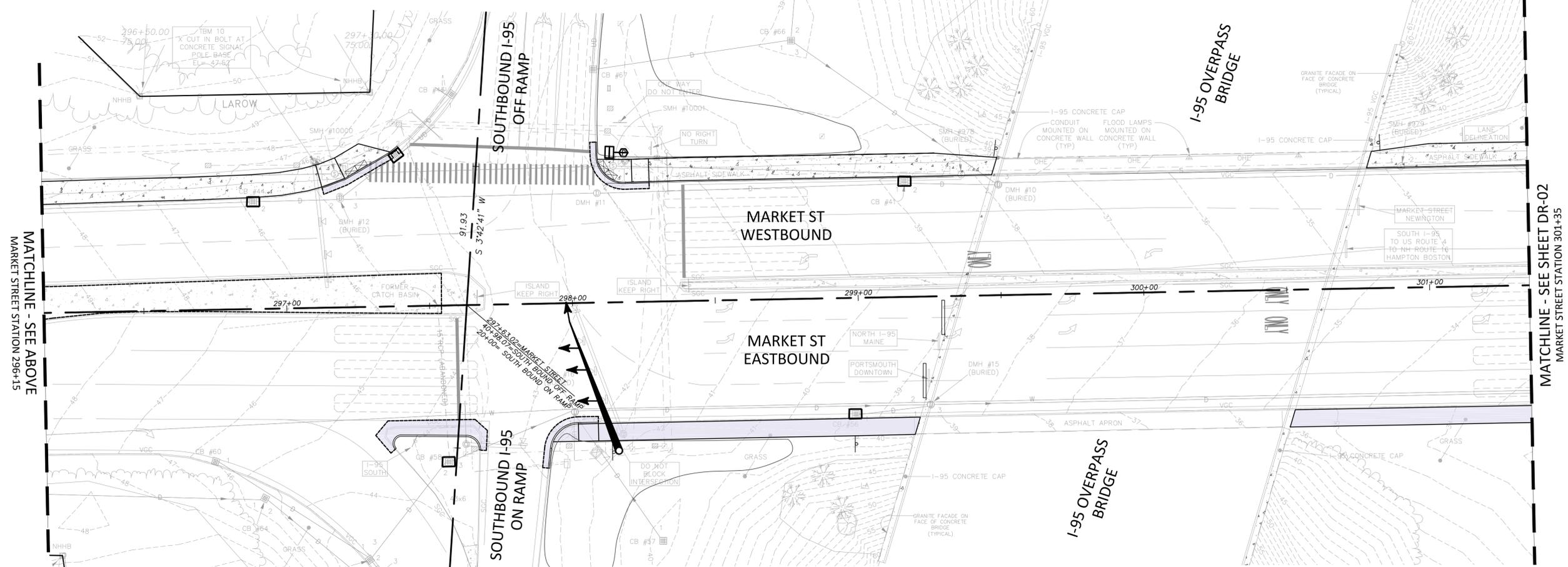
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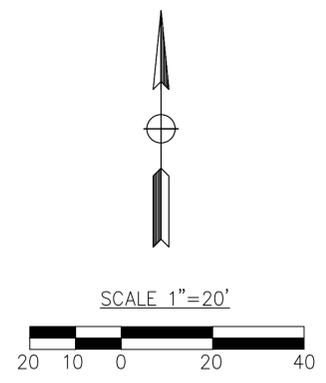
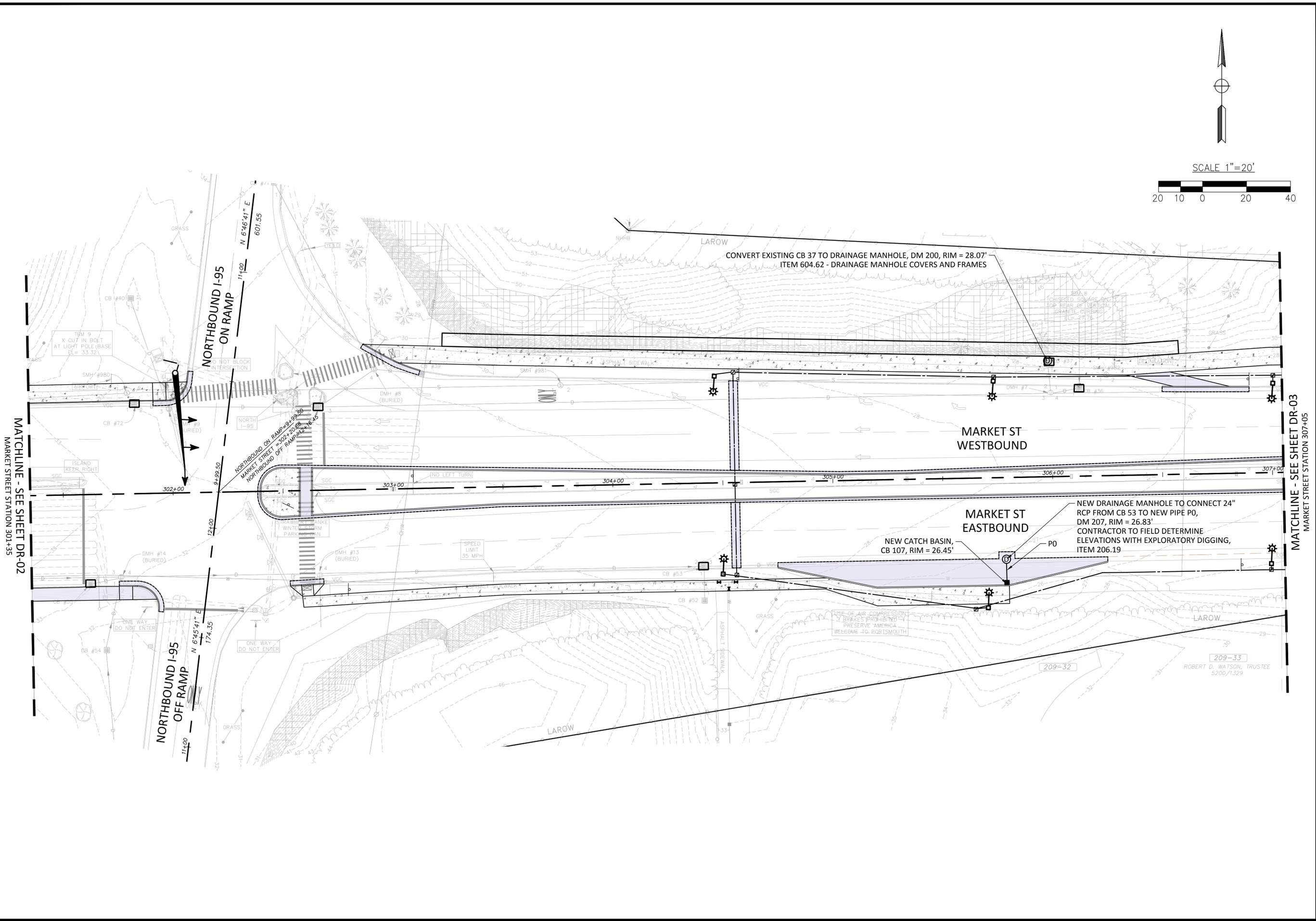
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MARKET STREET GATEWAY
DRAINAGE PLAN

DATE: NOVEMBER 2015
DRAWING No. DR-01
SHEET: 33 of 100



MATCHLINE - SEE SHEET DR-02
MARKET STREET STATION 301+35

MATCHLINE - SEE SHEET DR-03
MARKET STREET STATION 307+05

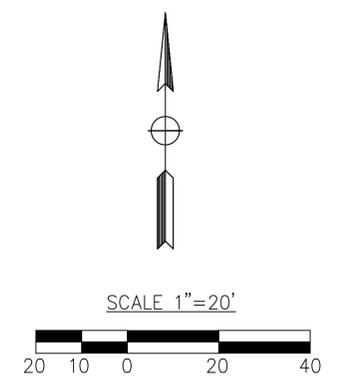
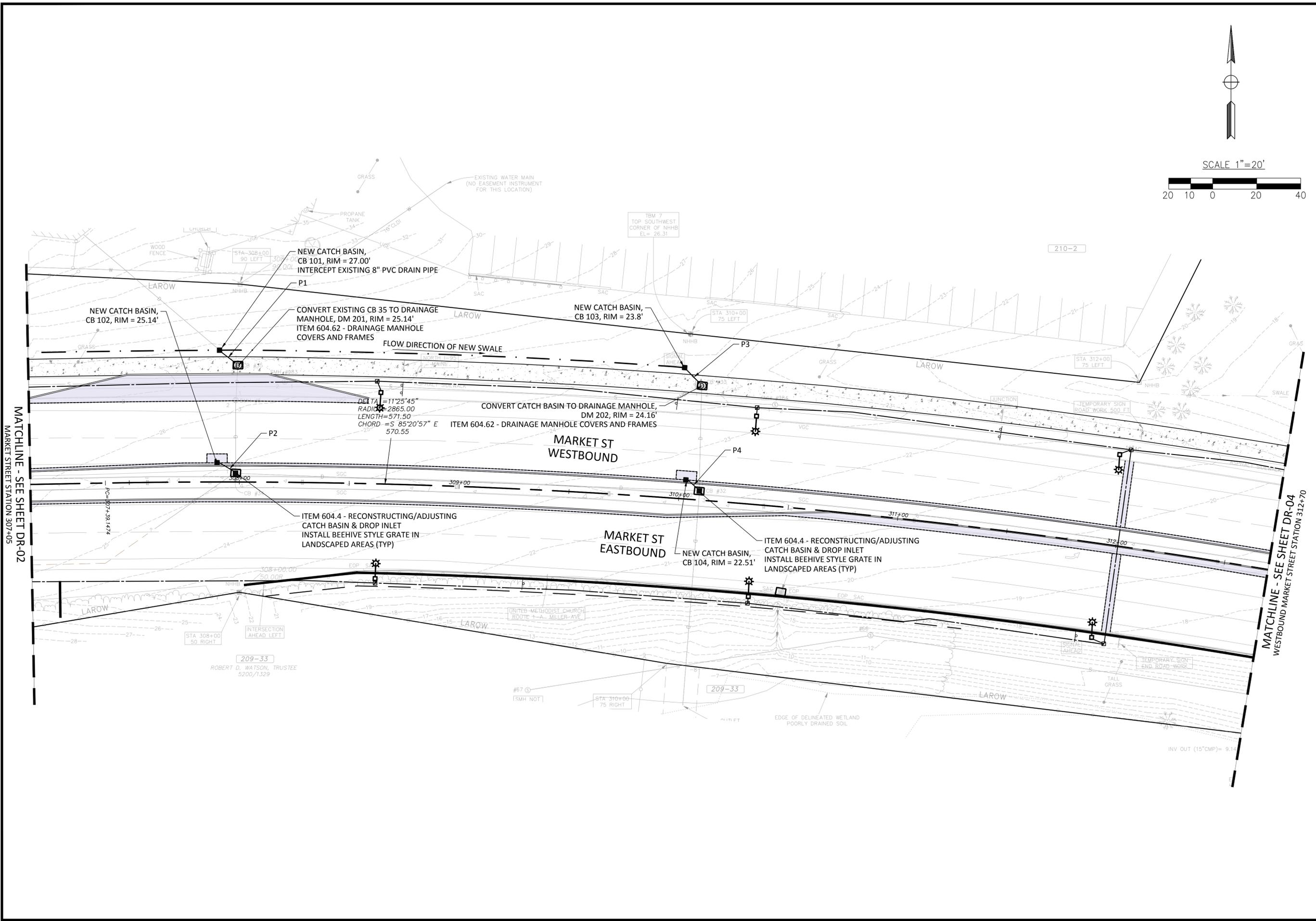
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DATE: NOVEMBER 2015		DRAWING No. DR-02		
SHEET: 34 of 100		CITY OF PORTSMOUTH, NH MARKET STREET GATEWAY DRAINAGE PLAN		



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A-25-1C



MATCHLINE - SEE SHEET DR-02
MARKET STREET STATION 307+05

MATCHLINE - SEE SHEET DR-04
WESTBOUND MARKET STREET STATION 312+70

no.	revision	date	by



PROJECT No.	13121
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SCALE:	1"=20'

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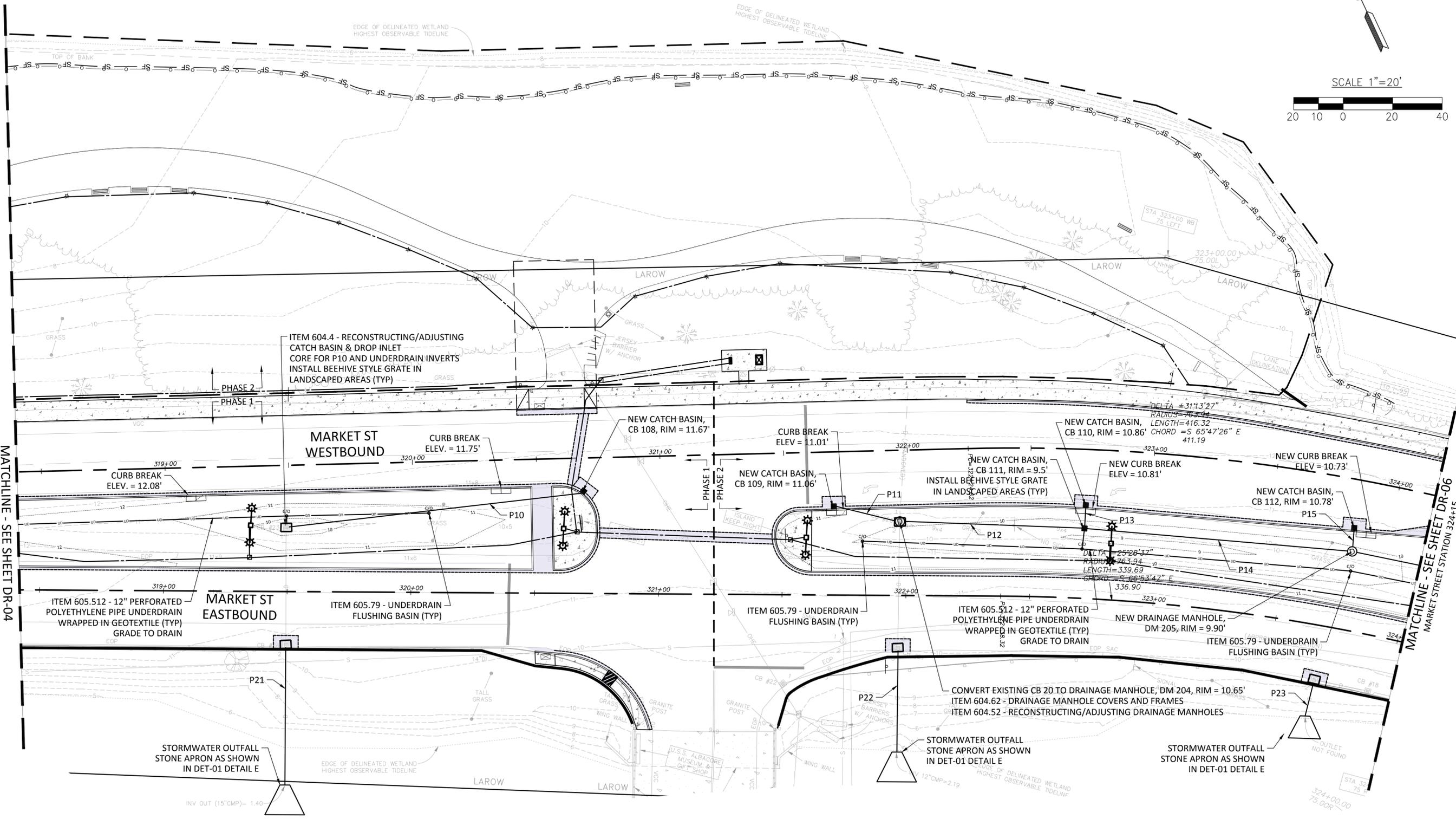
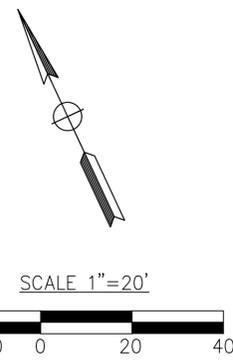
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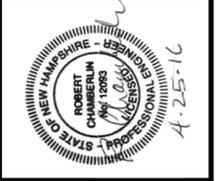
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MARKET STREET GATEWAY
DRAINAGE PLAN

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MATCHLINE - SEE SHEET DR-04
WESTBOUND MARKET STREET STATION 318+40



no.	revision	date	by



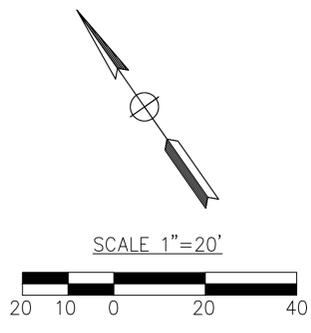
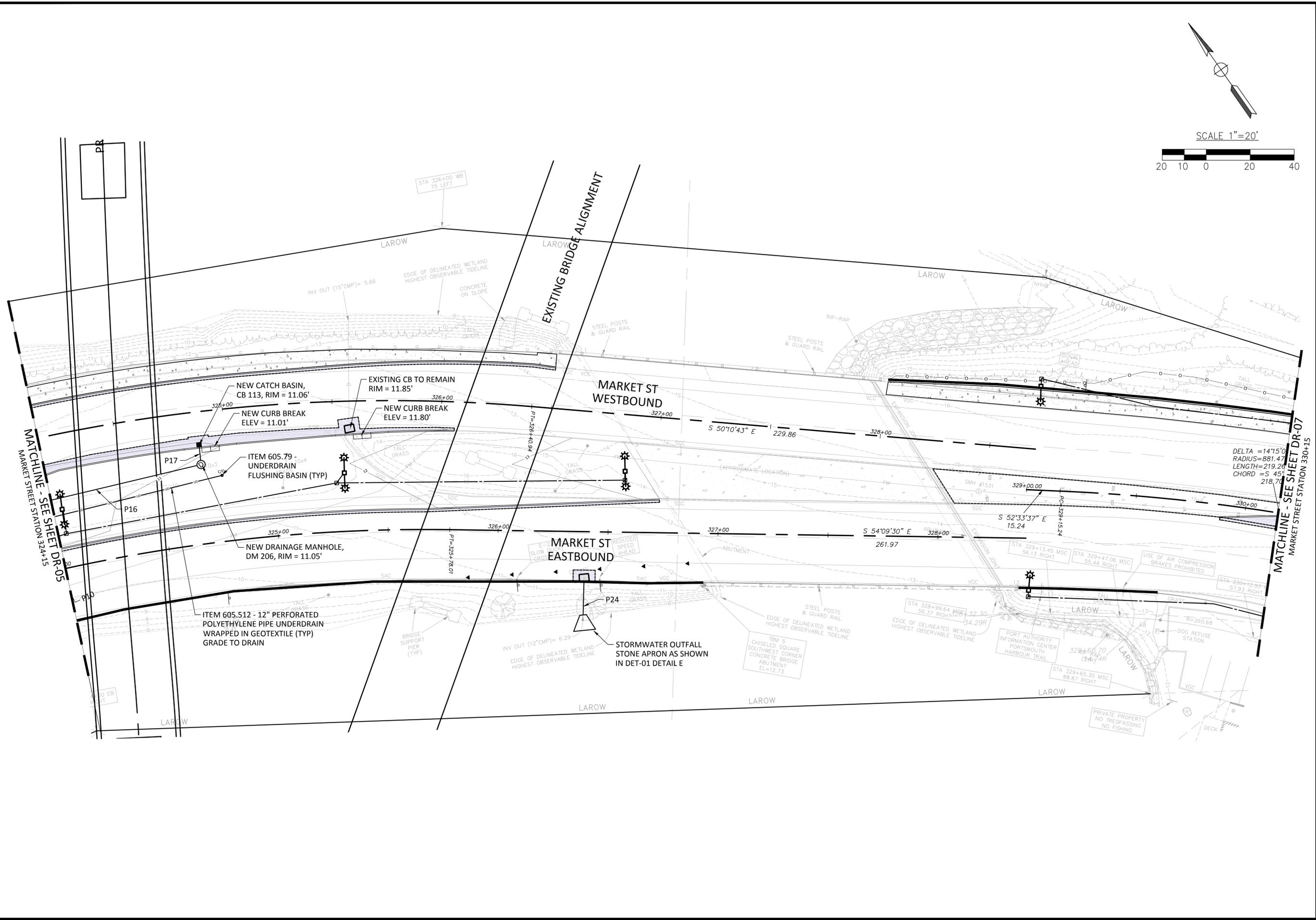
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 CHECKED BY: ...
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MARKET STREET GATEWAY
DRAINAGE PLAN

DATE: NOVEMBER 2015
 DRAWING No. DR-05
 SHEET: 37 of 100



PROJECT No.	13121
DESIGNED BY:	...
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SCALE:	1"=20'

no.	revision	date	by

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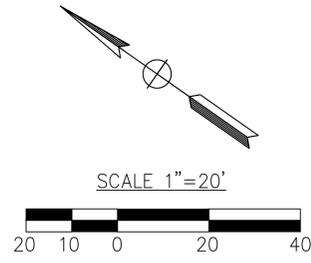
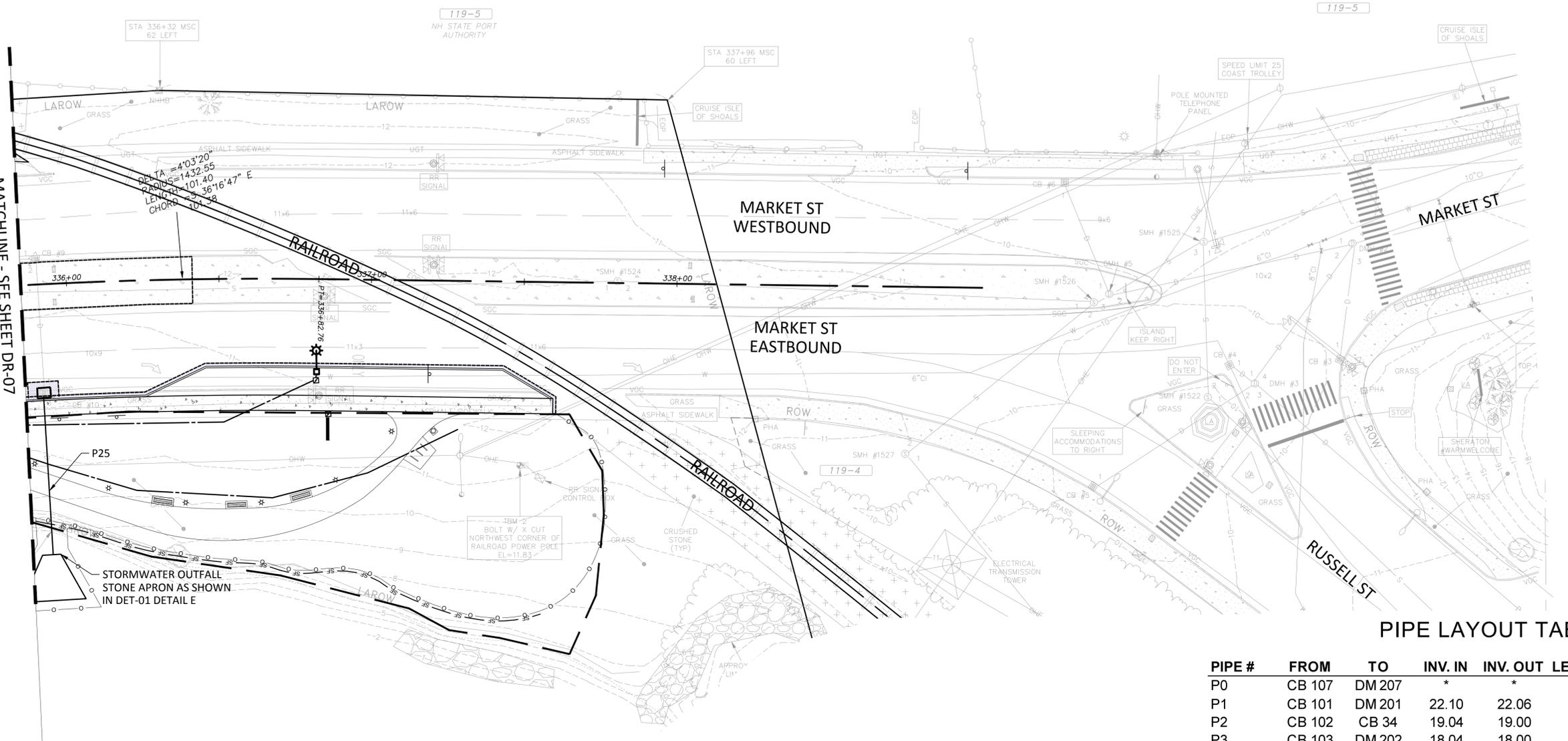
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MARKET STREET GATEWAY
DRAINAGE PLAN

DATE: NOVEMBER 2015
 DRAWING No.
DR-06

SHEET: 38 of 100

MATCHLINE - SEE SHEET DR-07
MARKET STREET STATION 335+85



PIPE LAYOUT TABLE

PIPE #	FROM	TO	INV. IN	INV. OUT	LENGTH	PITCH	MATERIAL
P0	CB 107	DM 207	*	*	10	0.5%	15" SL HDPE
P1	CB 101	DM 201	22.10	22.06	8	0.5%	12" SL HDPE
P2	CB 102	CB 34	19.04	19.00	8	0.5%	15" SL HDPE
P3	CB 103	DM 202	18.04	18.00	8	0.5%	15" SL HDPE
P4	CB 104	CB 32	17.04	17.00	8	0.5%	15" SL HDPE
P5	CB 105	CB 29	12.10	12.00	20	0.5%	15" SL HDPE
P6	CB 106	CB 25	5.10	5.00	20	0.5%	15" SL HDPE
P10	CB 108	CB 23	4.90	4.30	120	0.5%	15" SL HDPE
P11	CB 109	DM 204	4.77	4.65	24	0.5%	15" SL HDPE
P12	CB 111	DM 204	5.01	4.65	72	0.5%	15" SL HDPE
P13	CB 110	CB 111	5.15	5.11	7	0.5%	15" SL HDPE
P14	DM 205	CB 111	5.64	5.11	105	0.5%	15" SL HDPE
P15	CB 112	DM 205	5.77	5.74	6	0.5%	15" SL HDPE
P16	DM 206	DM 205	6.21	5.74	94	0.5%	15" SL HDPE
P17	CB 113	DM 206	6.34	6.31	6	0.5%	15" SL HDPE
P18	CB 30	OUT	9.31	9.14	28	0.6%	15" SL HDPE
P19	CB 27	OUT	9.09	7.67	15	9.5%	12" SL HDPE
P20	CB 26	OUT	3.30	2.64	33	2.0%	15" SL HDPE
P21	CB 24	OUT	4.42	1.40	56	5.4%	15" SL HDPE
P22	CB 21	OUT	2.27	2.19	41	0.2%	12" SL HDPE
P23	CB 19	OUT	4.05	3.84	21	1.0%	12" SL HDPE
P24	CB 16	OUT	6.63	6.32	14	2.2%	12" SL HDPE
P25	CB 10	OUT	4.63	4.59	44	0.1%	24" SL HDPE
P26	CB 115	CB 114	7.34	7.14	40	0.50%	15" SL HDPE
P27	CB 114	CB 12	7.09	6.77	106	0.30%	15" SL HDPE

* FIELD DETERMINE INVERT BY EXPLORATORY DIGGING

no.	revision	revision	date	by



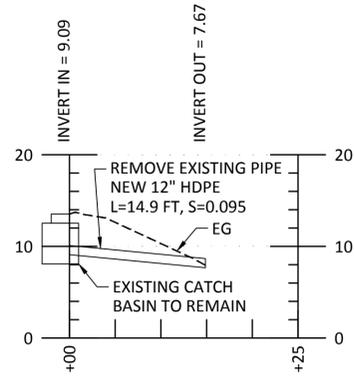
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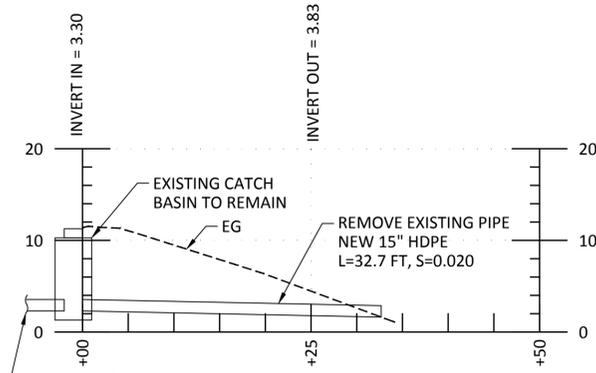
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DRAINAGE PLAN

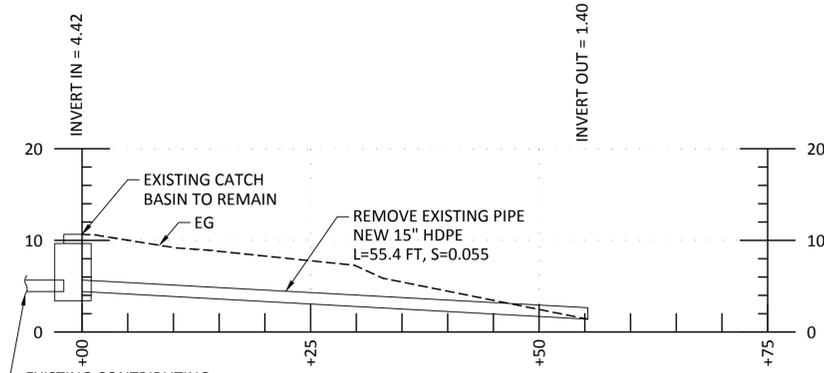
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SHEET: 40 of 100



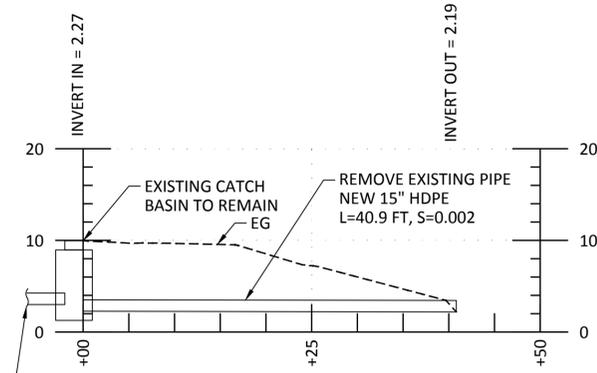
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STATION 315+00 RT
P19



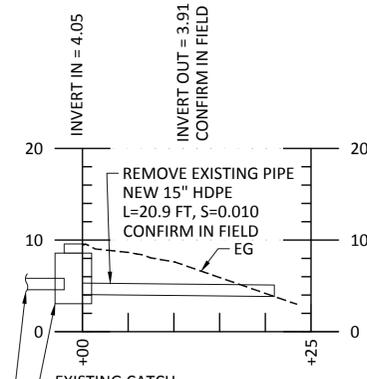
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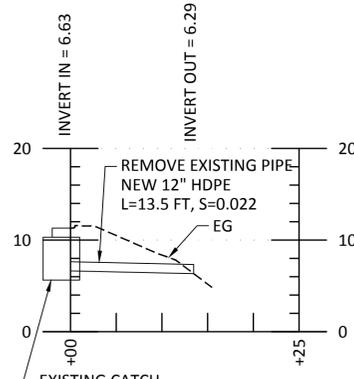
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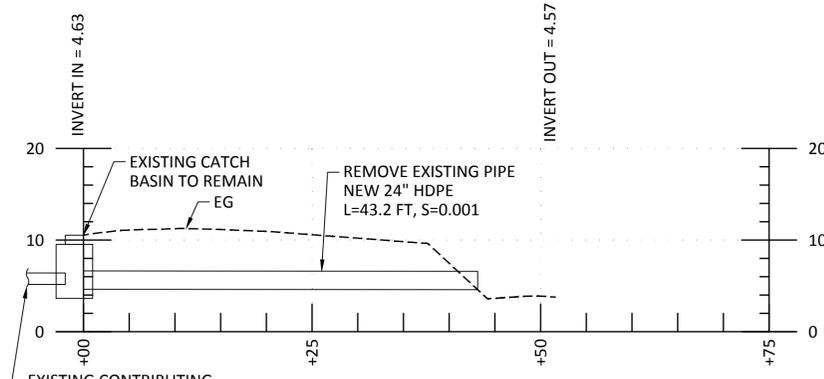
DRAINAGE PROFILE D
STATION 322+00 RT
P22



DRAINAGE PROFILE E
STATION 323+75 RT
P23



DRAINAGE PROFILE F
STATION 325+60 RT
P24



DRAINAGE PROFILE F
STATION 335+85 RT
P25

no.	revision	date	by

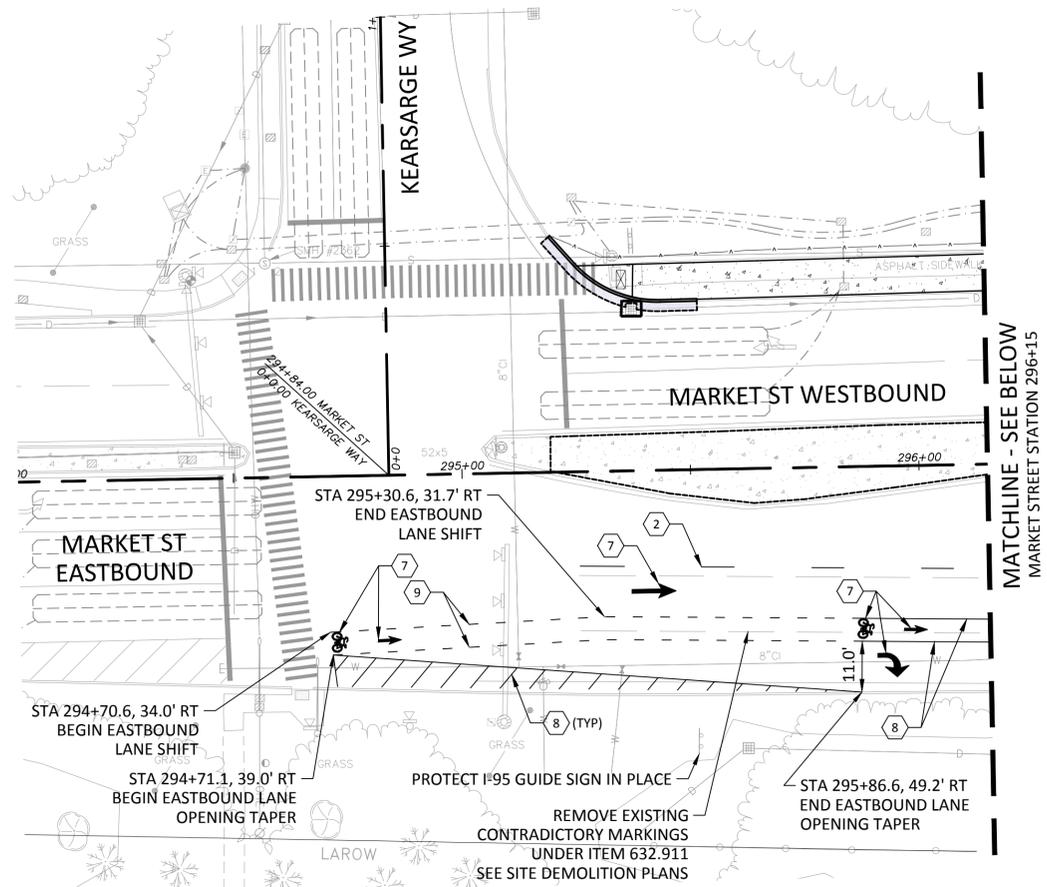


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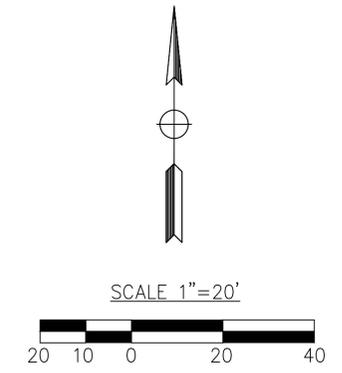
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DRAINAGE PROFILES



NOTES
 1. FOR GENERAL NOTES SEE DRAWING NO. G-02
 2. FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 3. FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16



STRIPING LEGEND

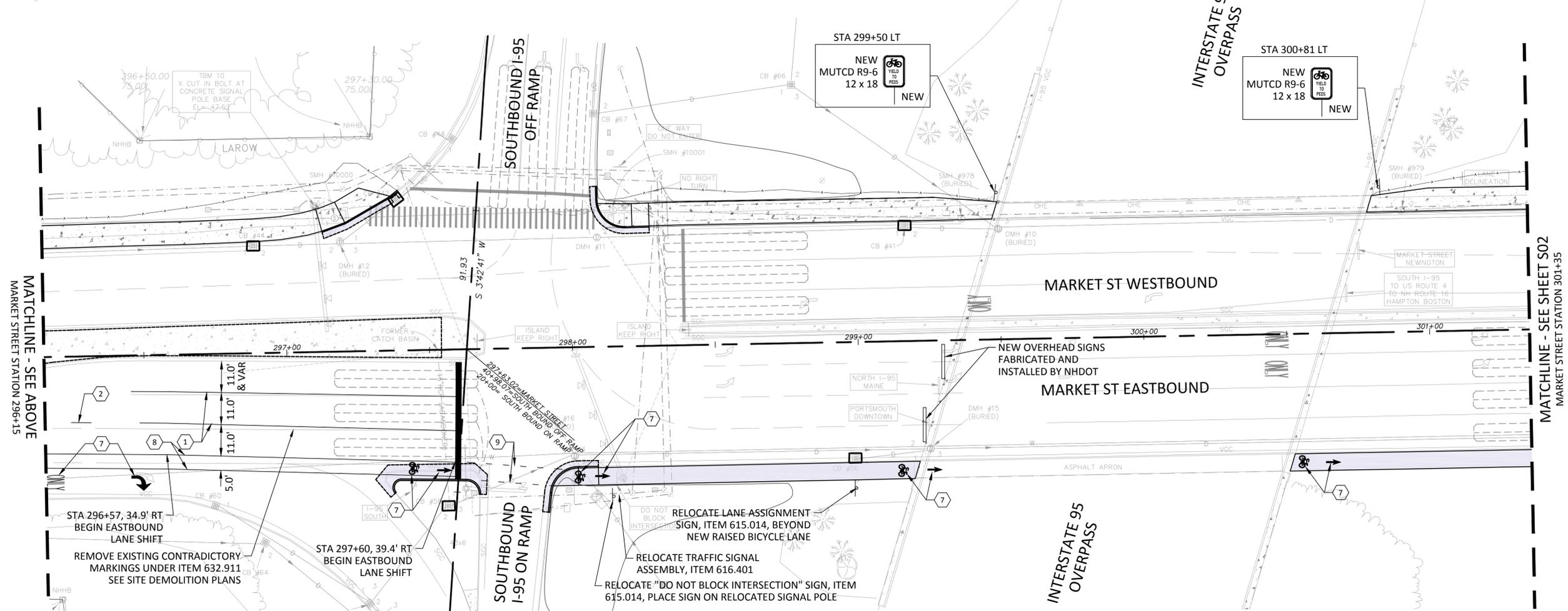
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2	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30" DASHED WHITE
3	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4" DASHED WHITE
4	ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
5	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
6	ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
7	ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
8	ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
9	ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4" DASHED WHITE

no.	revision	date	by

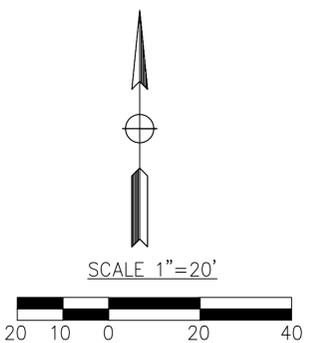
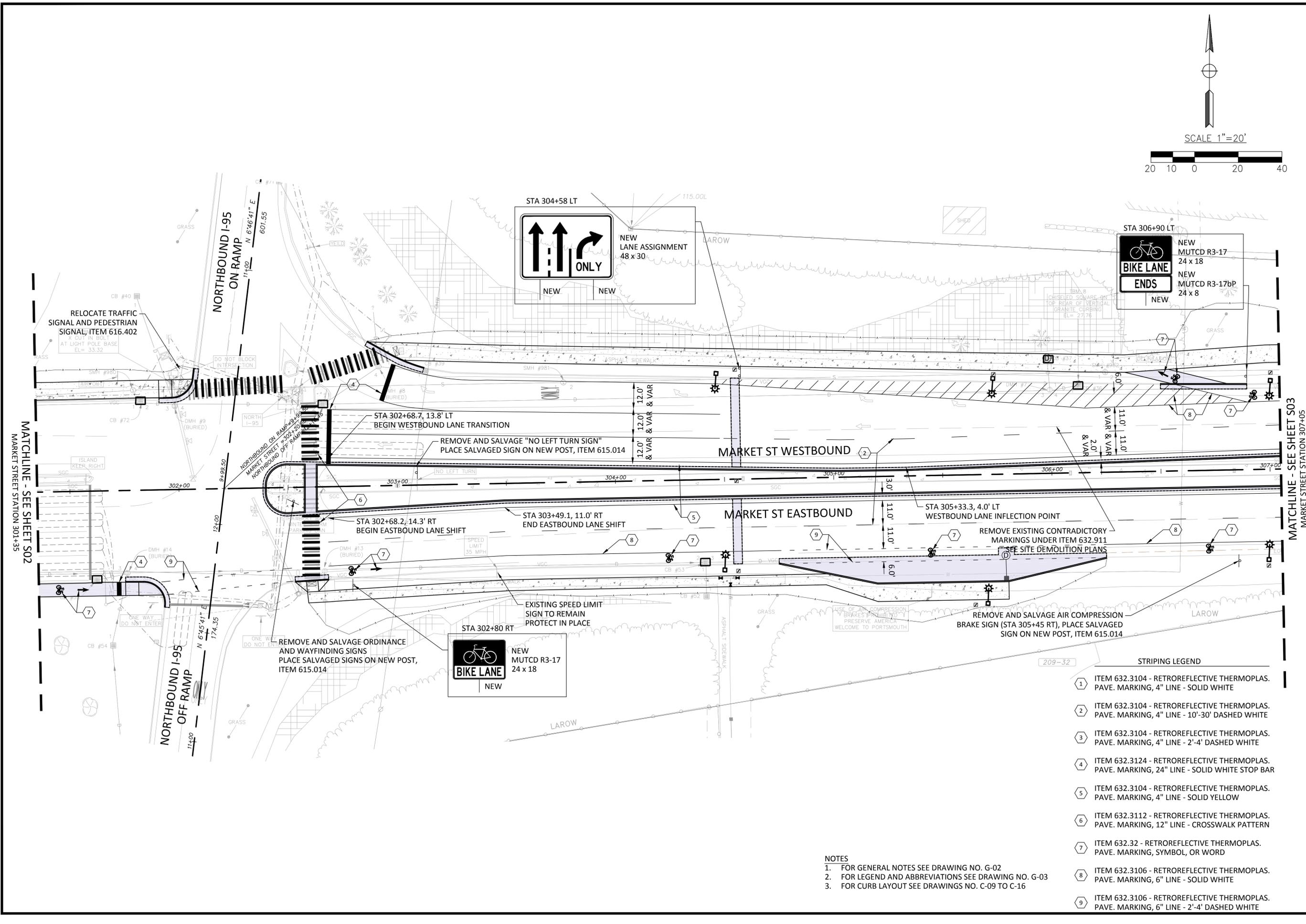
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
SIGN & STRIPE PLAN 1



no.	revision	date	by



PROJECT No. 13121
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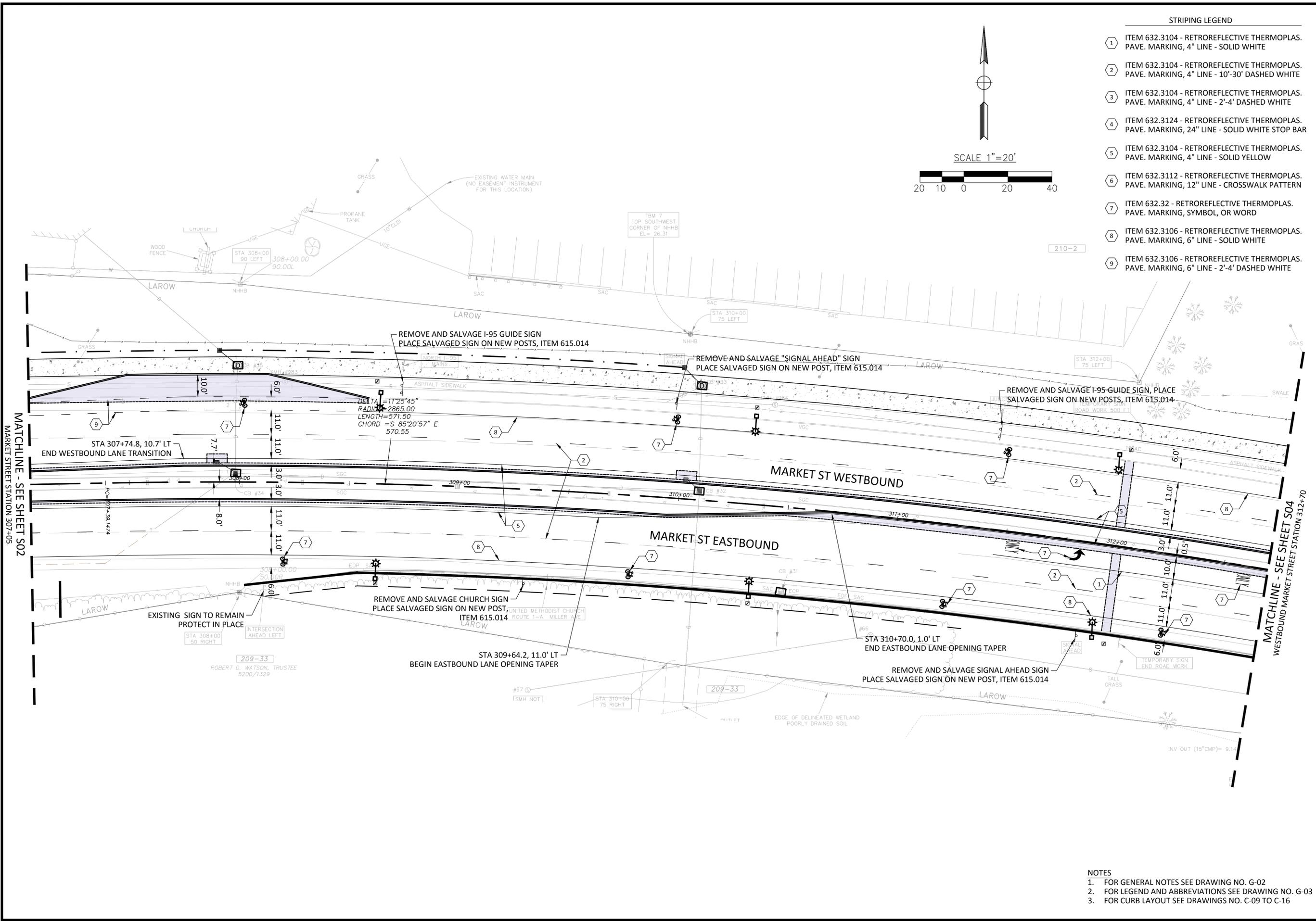
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 MARKET STREET GATEWAY
 SIGN & STRIPE PLAN 2

DATE: NOVEMBER 2015
 DRAWING No. ST-02
 SHEET: 43 of 100

- STRIPING LEGEND**
- ① ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
 - ② ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30" DASHED WHITE
 - ③ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4" DASHED WHITE
 - ④ ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
 - ⑤ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
 - ⑥ ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
 - ⑦ ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
 - ⑧ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
 - ⑨ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4" DASHED WHITE

NOTES

- FOR GENERAL NOTES SEE DRAWING NO. G-02
- FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
- FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16



- STRIPING LEGEND**
- ① ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
 - ② ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30' DASHED WHITE
 - ③ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4' DASHED WHITE
 - ④ ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
 - ⑤ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
 - ⑥ ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
 - ⑦ ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
 - ⑧ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
 - ⑨ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4' DASHED WHITE

no.	revision	revision	date	by

PROJECT No.	13121
DESIGNED BY:	D/JG
CHECKED BY:	D/JG
SCALE:	1"=20'

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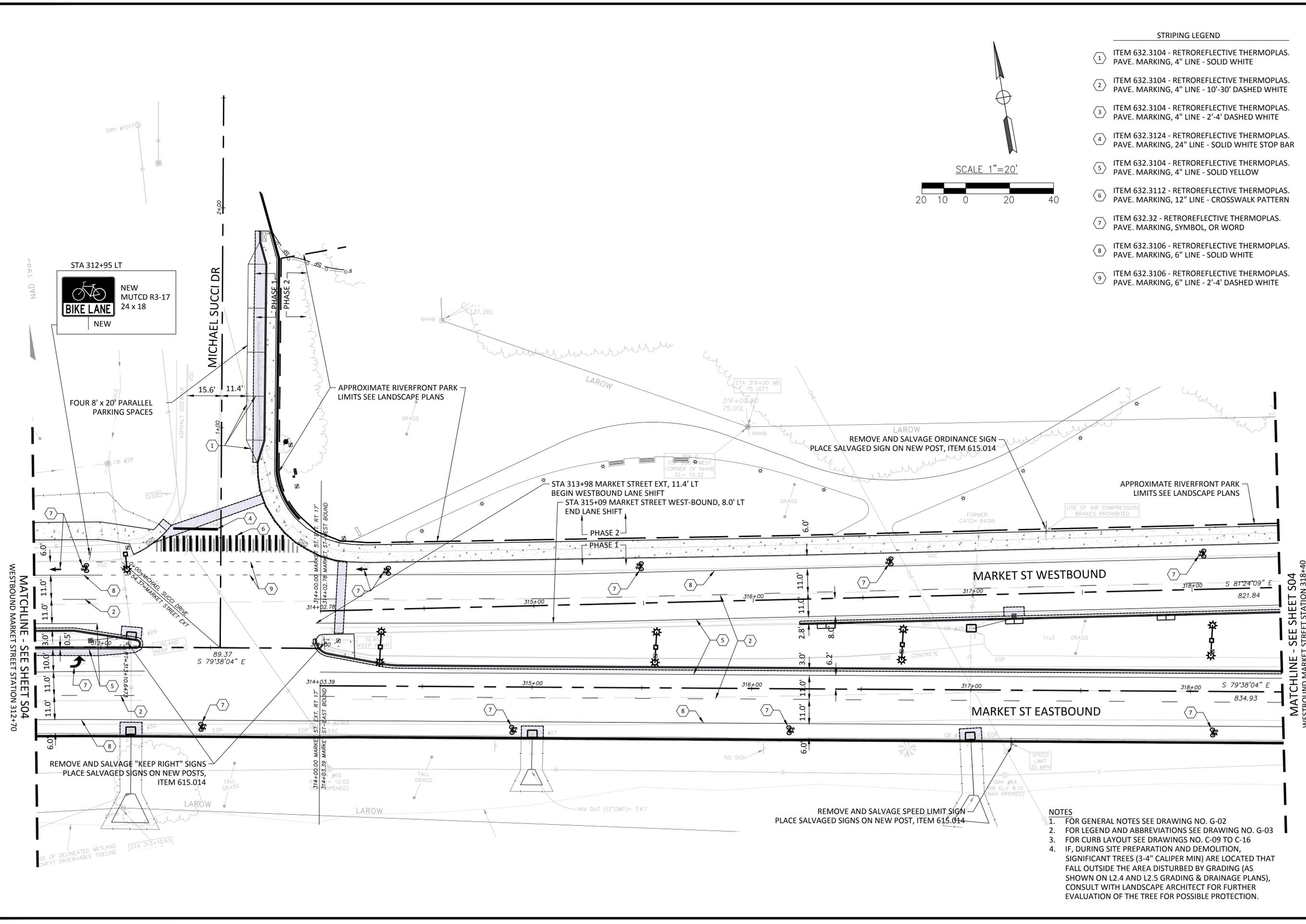
MARKET STREET GATEWAY

SIGN & STRIPE PLAN 3

DATE: NOVEMBER 2015
 DRAWING No. **ST-03**

SHEET: 44 of 100

- NOTES**
1. FOR GENERAL NOTES SEE DRAWING NO. G-02
 2. FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 3. FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16



- STRIPING LEGEND**
- 1 ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
 - 2 ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30' DASHED WHITE
 - 3 ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4' DASHED WHITE
 - 4 ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
 - 5 ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
 - 6 ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
 - 7 ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
 - 8 ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
 - 9 ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4' DASHED WHITE

no.	revision	date	by

PROJECT No. 13121
 DESIGNED BY: DJG
 CHECKED BY: DJG
 SCALE: 1"=20'

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 55 Railroad Row, White River Junction, Vermont 05001
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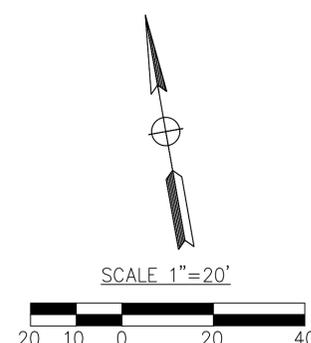
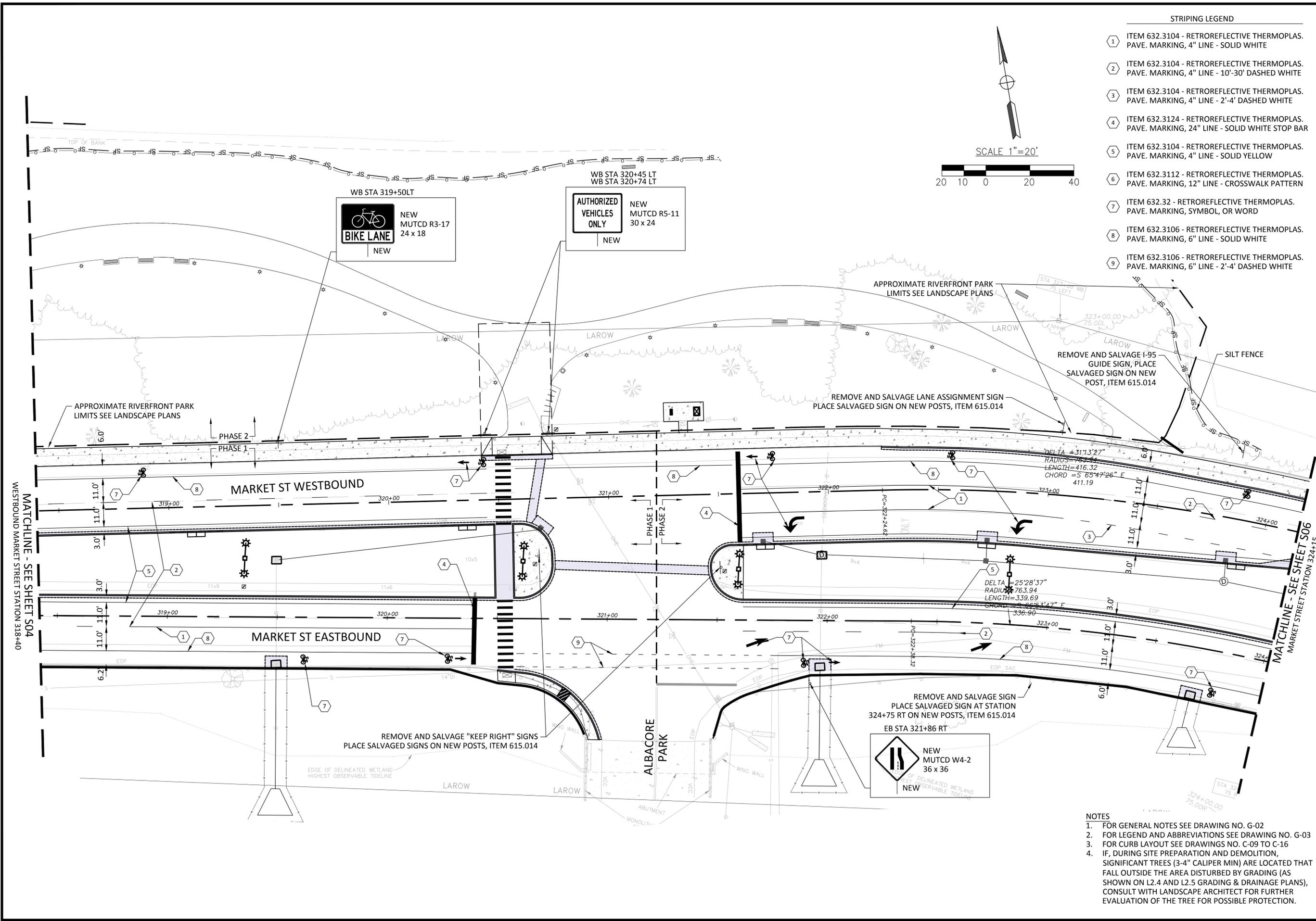
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CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 SIGN & STRIPE PLAN 4

MATCHLINE - SEE SHEET SO4
 WESTBOUND MARKET STREET STATION 318+40

DATE: APRIL 2016
 DRAWING No. ST-04
 SHEET: 45 of 100

Q:\Projects\NH\Portsmouth-NH\13121 - Portsmouth Market Street Gateway\CAD\Final Design\Market Street Striping Plan.dwg



STRIPING LEGEND

- ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
- ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30" DASHED WHITE
- ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4" DASHED WHITE
- ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
- ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
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- ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
- ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
- ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4" DASHED WHITE

PROJECT No.	13121
DESIGNED BY:	D/JG
CHECKED BY:	D/JG
SCALE:	1"=20'

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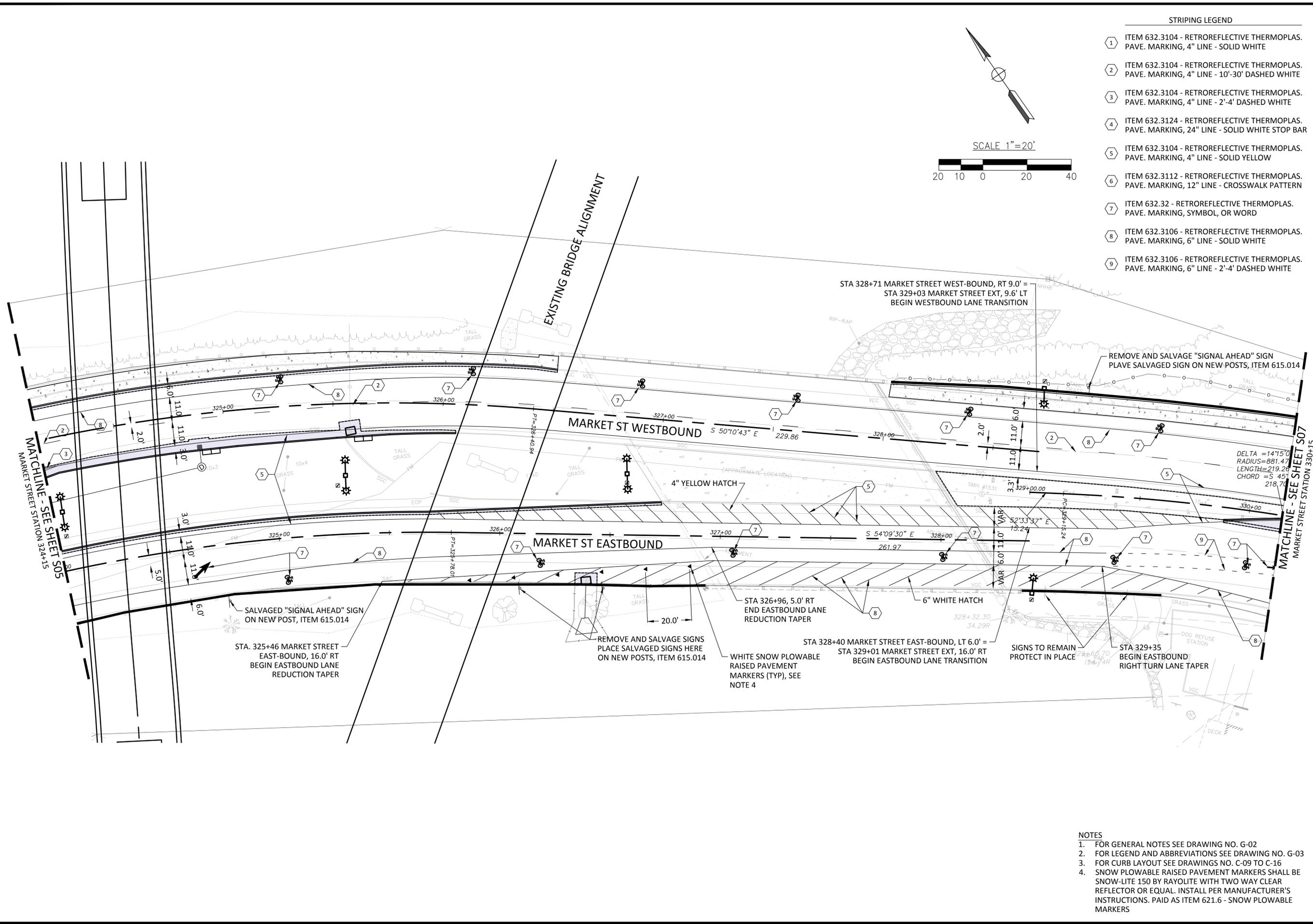
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
SIGN & STRIPE PLAN 5

DATE: NOVEMBER 2015
DRAWING No. **ST-05**

SHEET: 46 of 100

- NOTES**
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 - IF, DURING SITE PREPARATION AND DEMOLITION, SIGNIFICANT TREES (3-4" CALIPER MIN) ARE LOCATED THAT FALL OUTSIDE THE AREA DISTURBED BY GRADING (AS SHOWN ON L2.4 AND L2.5 GRADING & DRAINAGE PLANS), CONSULT WITH LANDSCAPE ARCHITECT FOR FURTHER EVALUATION OF THE TREE FOR POSSIBLE PROTECTION.



- NOTES**
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16
 - SNOW PLOWABLE RAISED PAVEMENT MARKERS SHALL BE SNOW-LITE 150 BY RAYOLITE WITH TWO WAY CLEAR REFLECTOR OR EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PAID AS ITEM 621.6 - SNOW PLOWABLE MARKERS

PROJECT No.	13121	DESIGNED BY:	D/JG	CHECKED BY:	D/JG	SCALE:	1"=20'
DATE		DATE		DATE			
REVISION		REVISION		REVISION			
NO.		NO.		NO.			

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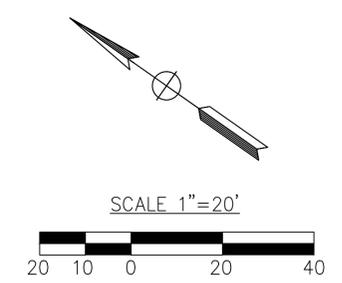
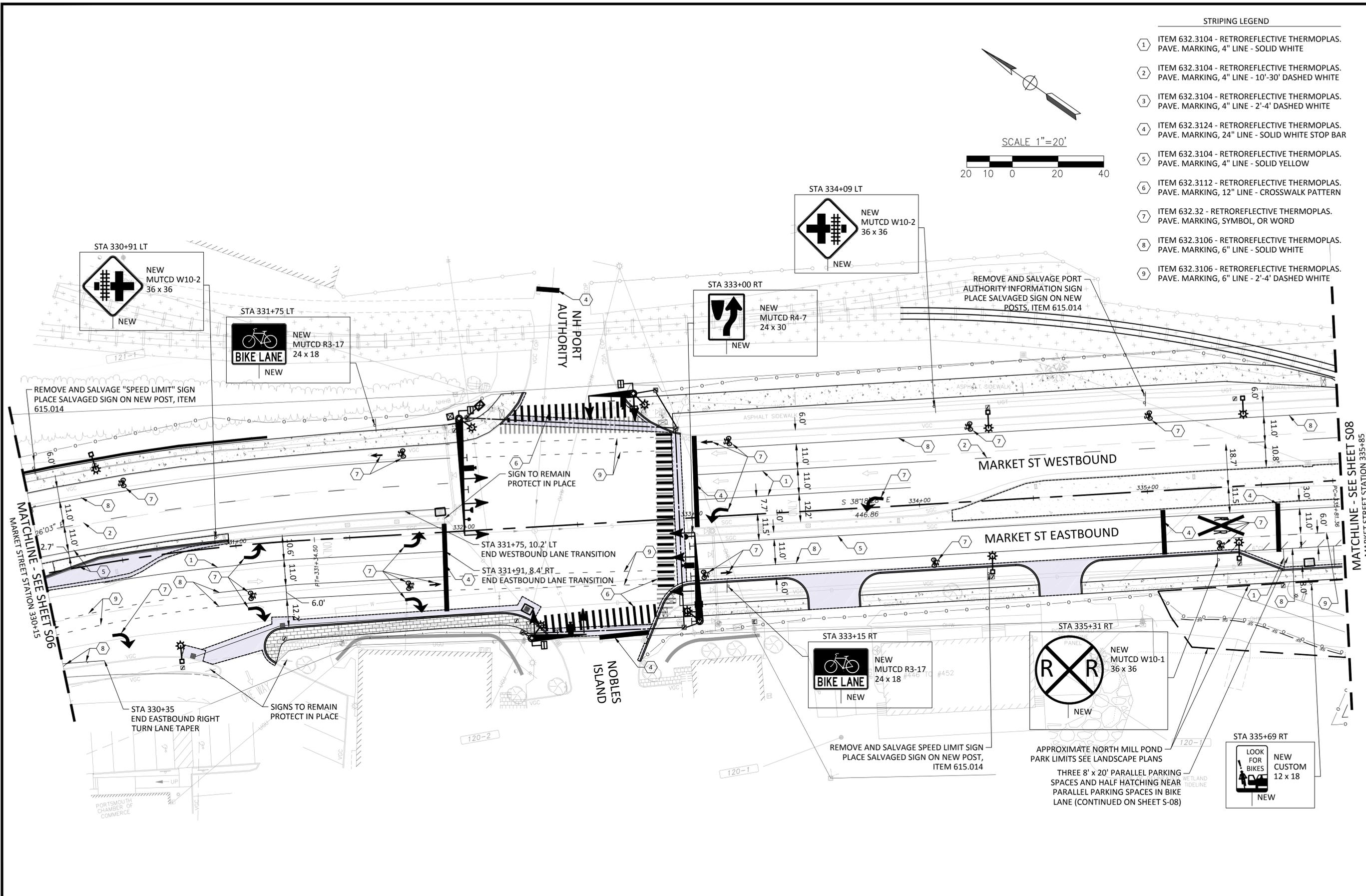
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CITY OF PORTSMOUTH, NH

MARKET STREET GATEWAY

SIGN & STRIPE PLAN 6

DATE: NOVEMBER 2015
DRAWING No. ST-06
SHEET: 47 of 100



- STRIPING LEGEND**
- ① ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
 - ② ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30" DASHED WHITE
 - ③ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4" DASHED WHITE
 - ④ ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
 - ⑤ ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
 - ⑥ ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
 - ⑦ ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
 - ⑧ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
 - ⑨ ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4" DASHED WHITE

PROJECT No.	13121
DESIGNED BY:	D/JG
CHECKED BY:	D/JG
SCALE:	1"=20'

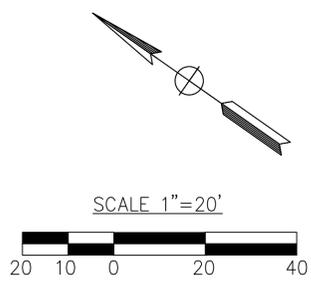
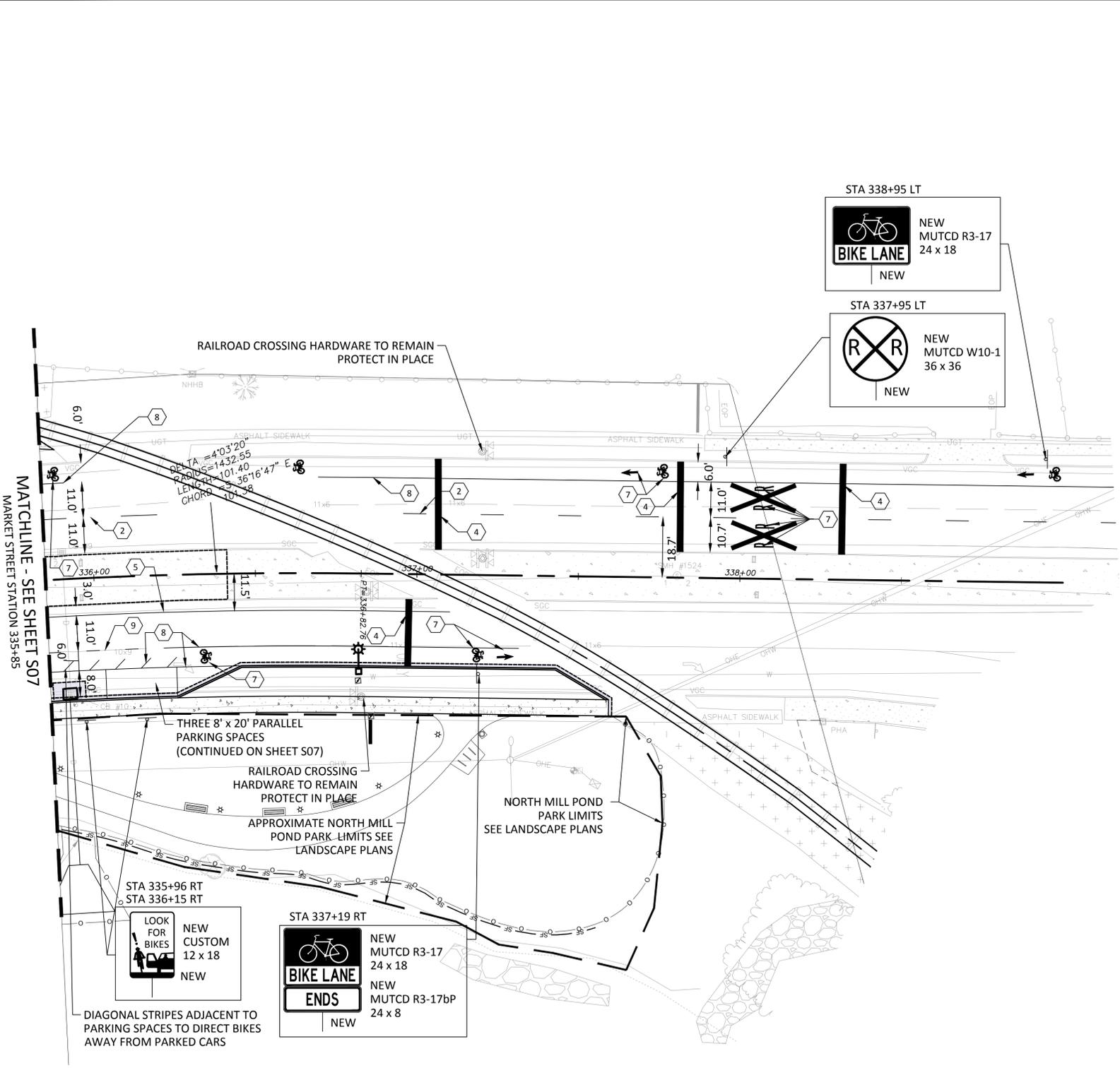
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CITY OF PORTSMOUTH, NH	MARKET STREET GATEWAY
SIGN & STRIPE PLAN 7	

DATE: NOVEMBER 2015
DRAWING No. ST-07
SHEET: 48 of 100

- NOTES**
1. FOR GENERAL NOTES SEE DRAWING NO. G-02
 2. FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 3. FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16



STRIPING LEGEND

1	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID WHITE
2	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 10'-30' DASHED WHITE
3	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - 2'-4' DASHED WHITE
4	ITEM 632.3124 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 24" LINE - SOLID WHITE STOP BAR
5	ITEM 632.3104 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 4" LINE - SOLID YELLOW
6	ITEM 632.3112 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 12" LINE - CROSSWALK PATTERN
7	ITEM 632.32 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, SYMBOL, OR WORD
8	ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - SOLID WHITE
9	ITEM 632.3106 - RETROREFLECTIVE THERMOPLAS. PAVE. MARKING, 6" LINE - 2'-4' DASHED WHITE

no.	revision	date	by



PROJECT No.	13121
DESIGNED BY:	...
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SCALE:	1"=20'

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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
SIGN & STRIPE PLAN 8

- NOTES
- FOR GENERAL NOTES SEE DRAWING NO. G-02
 - FOR LEGEND AND ABBREVIATIONS SEE DRAWING NO. G-03
 - FOR CURB LAYOUT SEE DRAWINGS NO. C-09 TO C-16

ITEM #	ID #	SIZE OF SIGN		TEXT	LETTER HEIGHT				SHIELD SIZE (IN.)	ARROW (IN.)	NUM. (IN.)	NEW SIGNS REQ'D		SIGN AREA			POSTS PER SIGN					REMARKS		
		WIDTH (IN.)	HEIGHT (IN.)		UC (IN.)	LC (IN.)	CAPS (IN.)	PHASE I				PHASE II	# OF SIGNS TO BE RESET	NOM. (SQ. FT.)	PHASE I TOTAL (SQ. FT.)	PHASE II TOTAL (SQ. FT.)	BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" ALUMINUM	U-CHANNEL ENAMEL GREEN			
	R3-17	24	18									4	4		3.0	12.0	12.0	1						STATIONS: 302+80 RT, 306+90 LT, 312+95 LT, 319+50 LT, 331+75 LT, 331+15 RT, 337+19 RT, 338+95 LT
	R4-7	24	30										1		5.0	0.0	5.0	1						STATIONS: 333+00 RT
	R3-8 modified	48	30									1			10.0	10.0	0.0	1						STATION: 304+58 LT
	R9-6	12	18									2			1.5	3.0	0.0	1						STATIONS: 299+50 LT, 300+81 LT
	R3-17b	24	8									1	1		1.3	1.3	1.3	0						SUPPLEMENTARY PLAQUE TO R3-17 STATIONS: 306+90 LT, 337+19 RT
	R5-11	30	24									2			5.0	10.0	0.0	1						STATIONS: 320+45 LT, 320+74 LT
	W4-2	36	36										1		9.0	0.0	9.0	1						STATION: 321+92 RT
	W10-2	36	36										2		9.0	0.0	18.0	1						STATIONS: 330+91 LT, 334+09 LT
	W10-1	36	36										2		9.0	0.0	18.0	1						STATIONS: 335+31 RT, 337+95 LT
	C.S. A	12	18										3		1.5	0.0	4.5	1						STATIONS: 335+69 RT, 335+96 RT, 336+15 RT



- NOTES:
- ALL REGULATORY, WARNING AND GUIDE SIGNS SHALL HAVE TYPE VII BACKGROUND SHEETING ("DIAMOND GRADE") UNLESS OTHERWISE SPECIFIED.
 - REFER TO THE STANDARD HIGHWAY SIGNS (SHS) MANUAL AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR ADDITIONAL DESIGN INFORMATION ON CHARACTERS, FONTS, COLORS, BACKGROUND, BORDERS, ETC.
 - SIGNS MOUNTED ON TRAFFIC SIGNAL EQUIPMENT SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL PAY ITEM.
 - ALL SIGN POSTS SHALL BE THREE POUNDS PER FOOT STEEL UNLESS APPROVED BY ENGINEER.

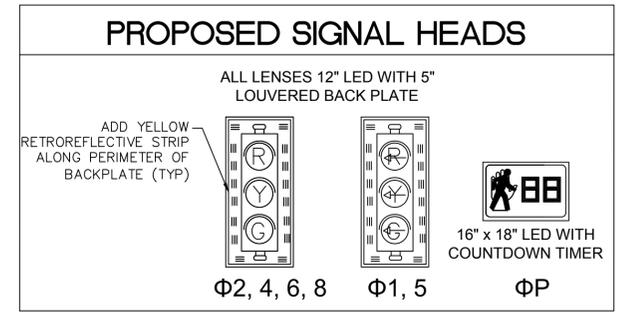
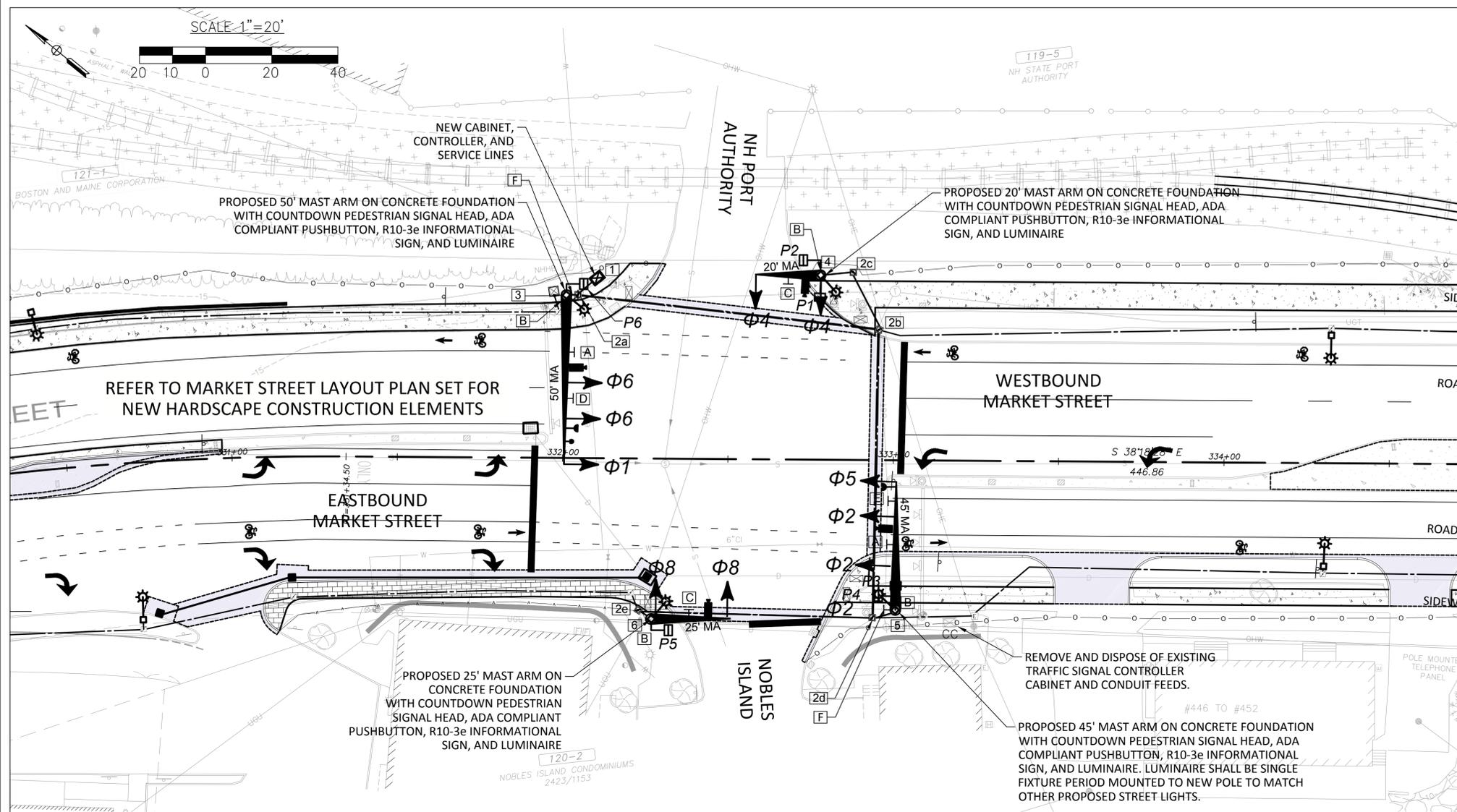


PROJECT No. 13121
 DESIGNED BY: ...
 CHECKED BY: ...
 SCALE: 1"=20'



CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 TRAFFIC SIGN SUMMARY SHEET

SALVAGE SIGN SUMMARY				
	STATION	DESCRIPTION	TYPE	BREAKAWAY POSTS
PHASE I	298+13 RT	DO NOT BLOCK INTERSECTION	C	1
	298+99 RT	LANE ASSIGNMENT	C	1
	302+53 RT	LOCAL ORDINANCE / WAYFINDING	C	1
	303+09 LT	NO LEFT TURN	C	1
	306+85 RT	LOCAL ORDINANCE	C	1
	308+75 LT	I-95 GUIDE	C	1
	309+31 RT	CHURCH	C	1
	309+96 LT	SIGNAL AHEAD	C	1
	311+45 LT	I-95 GUIDE	C	1
	311+90 RT	SIGNAL AHEAD	C	1
	313+10 LT	KEEP RIGHT	C	1
	314+00 LT	KEEP RIGHT	C	1
	317+18 RT	SPEED LIMIT	C	1
	317+34 LT	LOCAL ORDINANCE	C	1
	320+70 LT	KEEP RIGHT	C	1
PHASE II	321+52 LT	KEEP RIGHT	C	1
	323+04 LT	LANE ASSIGNMENT	C	1
	323+84 LT	I-95 GUIDE	C	1
	324+75 RT	SIGNAL AHEAD	C	1
	326+10 RT	E-2/SLOW DUCK CROSSING	C	1
	326+47 RT	REDUCE SPEED AHEAD	C	1
	329+24 LT	SIGNAL AHEAD	C	1
	330+15 LT	SPEED LIMIT	C	1
	334+29 RT	SPEED LIMIT	C	1
	335+02 LT	PORT AUTHORITY GUIDE	C	1



SIGN SCHEDULE

SIGN	ID	SIZE / COLOR	TEXT	# SIGNS	REMARKS
A	R3-17	24"x18" BLACK & WHITE	BIKE LANE	2	MAST ARM MOUNTED
B	R10-3e	9"x15" BLACK, WHITE & ORANGE		4	SIGNAL POLE MOUNTED
C	D3-1		Market St (48" x 24")	2	MAST ARM MOUNTED
D	D3-1b			1	MAST ARM MOUNTED
E	D3-1c			1	MAST ARM MOUNTED
F	R10-15	30"x30" BLACK, WHITE & YELLOW OR YELLOW-GREEN		1	MAST ARM MOUNTED

MAST ARM MOUNTED SIGNS ARE SUBSIDIARY TO ITEM 616.1 SEE SPECIAL PROVISIONS ITEM 616 FOR ADDITIONAL DETAILS

EQUIPMENT SCHEDULE

LOCATION NUMBER	DESCRIPTION
1	INSTALL NEW CONTROLLER, CABINET AND POWER SUPPLY PER CITY AND NEC STANDARDS.
2x	18" CONCRETE PULL BOX PER NHDOT STANDARD SL-1
3	PROPOSED 50' MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, ADA COMPLIANT PUSHBUTTON, R10-3e INFORMATIONAL SIGN, AND LUMINAIRE
4	PROPOSED 20' MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, ADA COMPLIANT PUSHBUTTON, R10-3e INFORMATIONAL SIGN, AND LUMINAIRE
5	PROPOSED 45' MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, ADA COMPLIANT PUSHBUTTON, R10-3e INFORMATIONAL SIGN, AND LUMINAIRE
6	PROPOSED 25' MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, ADA COMPLIANT PUSHBUTTON, R10-3e INFORMATIONAL SIGN, AND LUMINAIRE

INCLUDING ALL WIRING AND SUBSIDIARY EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL TRAFFIC SIGNAL TO CITY OF PORTSMOUTH STANDARDS

GENERAL NOTES

- DIGSAFE TO BE CONTACTED PRIOR TO COMMENCING ANY CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AS REQUIRED.
- INSTALL SIGN R10-3E ABOVE ALL PEDESTRIAN PUSH BUTTONS. PAYMENT INCLUDED UNDER 616.191.
- CONTRACTOR TO SHALL PROVIDE, INSTALL, AND RELOCATE ALL NECESSARY JUNCTION BOXES AND ASSOCIATED CONDUIT AND WIRING AS NOTED ON THIS PLAN.
- PEDESTRIAN PUSHBUTTON TO BE LOCATED IN ACCORDANCE WITH 2009 MUTCD SECTION 4E.08. LOCATION TO BE FULLY COMPLIANT WITH ADA STANDARDS AND INCLUDE A PILOT LIGHT AND AUDIBLE BEACON.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATIONS OF UTILITIES SHOWN ON THE CONTRACT PLANS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL SUCH LINES WITHIN THE CONTRACT LIMITS HAVE BEEN SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE EXACT CONDITIONS, AND AT THEIR OWN EXPENSE, TO PROTECT AND SUPPORT ALL UTILITIES ENCOUNTERED IN HIS EXCAVATING AND TRENCHING OPERATIONS.
- WHEN RELOCATING, ALTERING, OR REPLACING TRAFFIC SIGNALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING OVERHEAD AND UNDERGROUND UTILITIES AS NECESSARY. THIS WORK SHALL BE SUBSIDIARY TO TRAFFIC SIGNAL ITEMS - 616.1, ALTERATIONS TO TRAFFIC SIGNAL ITEMS - 616.9, OR RELOCATING TRAFFIC SIGNAL ITEMS - 616.4, AS APPROPRIATE.
- THE FINAL LOCATION OF TRAFFIC SIGNS AND SIGNAL SUPPORTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER/CONSTRUCTION INSPECTOR.
- MAST ARMS SHALL BE POSITIONED PERPENDICULAR TO THE ROADWAY APPROACH SERVED UNLESS OTHERWISE INDICATED ON THE PLAN.
- MAST ARM FOUNDATIONS SHALL CONFORM TO NHDOT STANDARD PLAN NUMBERS TS-1 THROUGH TS-3.
- THE BOTTOM OF THE HOUSING OF EACH SIGNAL FACE SHALL BE AT LEAST 16 FEET BUT NO MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- THE CONTRACTOR SHALL PROVIDE SOIL BORINGS AT EACH MAST ARM FOUNDATION LOCATION INCLUDING A DETERMINATION OF THE SUITABILITY OF THE SOILS TO SUPPORT EACH STRUCTURE (SUBSIDIARY TO 616.101).
- PAVEMENT SAWCUTTING FOR CONDUITS AND JACKING PITS (WHEN REQUIRED) SHALL BE SUBSIDIARY TO ITEM 616.101. REPLACEMENT OF PAVEMENT FOR CONDUIT TRENCHES AND JACKING PITS WILL BE PAID UNDER ITEM 403.11 OR 403.12.
- TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC. WHEN THE TRAFFIC SIGNAL IS NOT OPERATIONAL DURING RELOCATION OR CONSTRUCTION, A TRAFFIC OFFICER OR TEMPORARY TRAFFIC SIGNAL SHALL BE UTILIZED (SUBSIDIARY TO 616).
- CONTRACTOR SHALL RUN TWO SIGNAL CONDUIT SIDE BY SIDE FOR ALL CONDUIT LENGTHS DESCRIBED IN THE CONDUIT SCHEDULE.
- WHEN REPLACING OR ALTERING AN EXISTING TRAFFIC SIGNAL, THE LABOR, MATERIALS, AND OTHER COSTS ASSOCIATED WITH REMOVING AND DISPOSING OF THE EXISTING SIGNALS AND/OR EQUIPMENT SHALL BE SUBSIDIARY TO TRAFFIC SIGNAL ITEMS - 616.1 OR ALTERATIONS TO TRAFFIC SIGNAL ITEMS - 616.9, AS APPROPRIATE.

LEGEND

EXISTING	PROPOSED	NOTES
		LED TRAFFIC SIGNAL HEAD
		PREEMPTION RECEIVER
		PREEMPTION STROBE
		SIGNAL MAST ARM
		STREET SIGN
		SIGNAL CONDUIT
		TRAFFIC CONTROLLER CABINET
		PULL BOX
		LUMINAIRE
		VIDEO DETECTION CAMERA
		PEDESTRIAN SIGNAL HEAD

CONDUIT SCHEDULE

FROM	TO	LENGTH (FT) (SEE NOTE 13)	DESCRIPTION
1	2a	5-FT	3" SCH 40 PVC
2a	3	2-FT	3" SCH 40 PVC
2a	2b	90-FT	3" SCH 80 PVC
2b	2c	18-FT	3" SCH 40 PVC
2c	4	8-FT	3" SCH 40 PVC
2b	2d	85-FT	3" SCH 80 PVC
2d	5	5-FT	3" SCH 40 PVC
2d	2e	70-FT	3" SCH 80 PVC
2e	6	3-FT	3" SCH 40 PVC

no.		revision		revision		date		by			
PROJECT No. 13121	DESIGNED BY: JDS	CHECKED BY: CDM	SCALE: 1"=20'								
CITY OF PORTSMOUTH, NH MARKET STREET GATEWAY SIGNAL PLAN - NOBLES ISLAND											
DATE: NOVEMBER 2015 DRAWING No. T-01											
SHEET: 51 of 100											

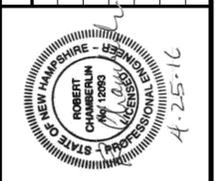
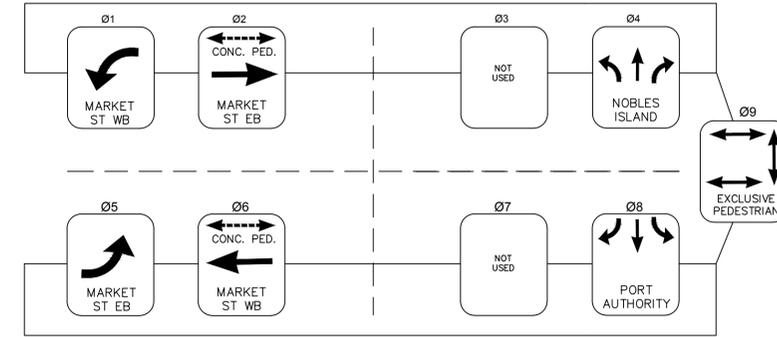
MARKET STREET / NOBLES ISLAND

SIGNAL PHASING AND TIMING

	φ1	φ2	φ3	φ4	φ5	φ6	φ7	φ8	φ9
INITIAL INTERVAL	5	10		8	5	10		8	
VEHICLE EXTENSION	3	3		3	3	3		3	
MAX 1	10	20		14	10	20			
MAX 2	10	21		14	10	21			
YELLOW	4.0	4.0		4.0	4.0	4.0		4.0	
ALL RED	2.0	2.0		2.0	2.0	2.0		2.0	3.0
PEDESTRIAN WALK		7				7			7
PEDESTRIAN CLEAR		16*				16*			17
FLASH	RED	YELLOW		RED	RED	YELLOW		RED	
RECALL		SOFT				SOFT			
DETECTOR	NL	NL		NL	NL	NL		NL	

*PEDESTRIAN CLEAR TO END AFTER THIRD SECOND OF YELLOW. SOLID DONT WALK TO BEGIN ON FOURTH SECOND OF YELLOW AND CONTINUE THROUGH ALL RED.

PROPOSED PHASE SEQUENCE

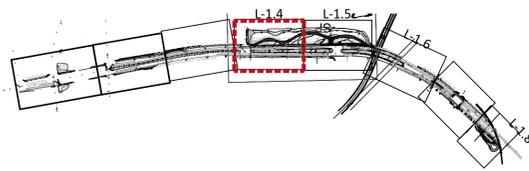


PROJECT No. 13121
 DESIGNED BY: ...
 CHECKED BY: ...
 SCALE: NTS



CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 SIGNAL TIMING PLAN

DATE: NOVEMBER 2015
 DRAWING No. T-02



PLAN KEY

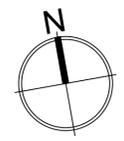
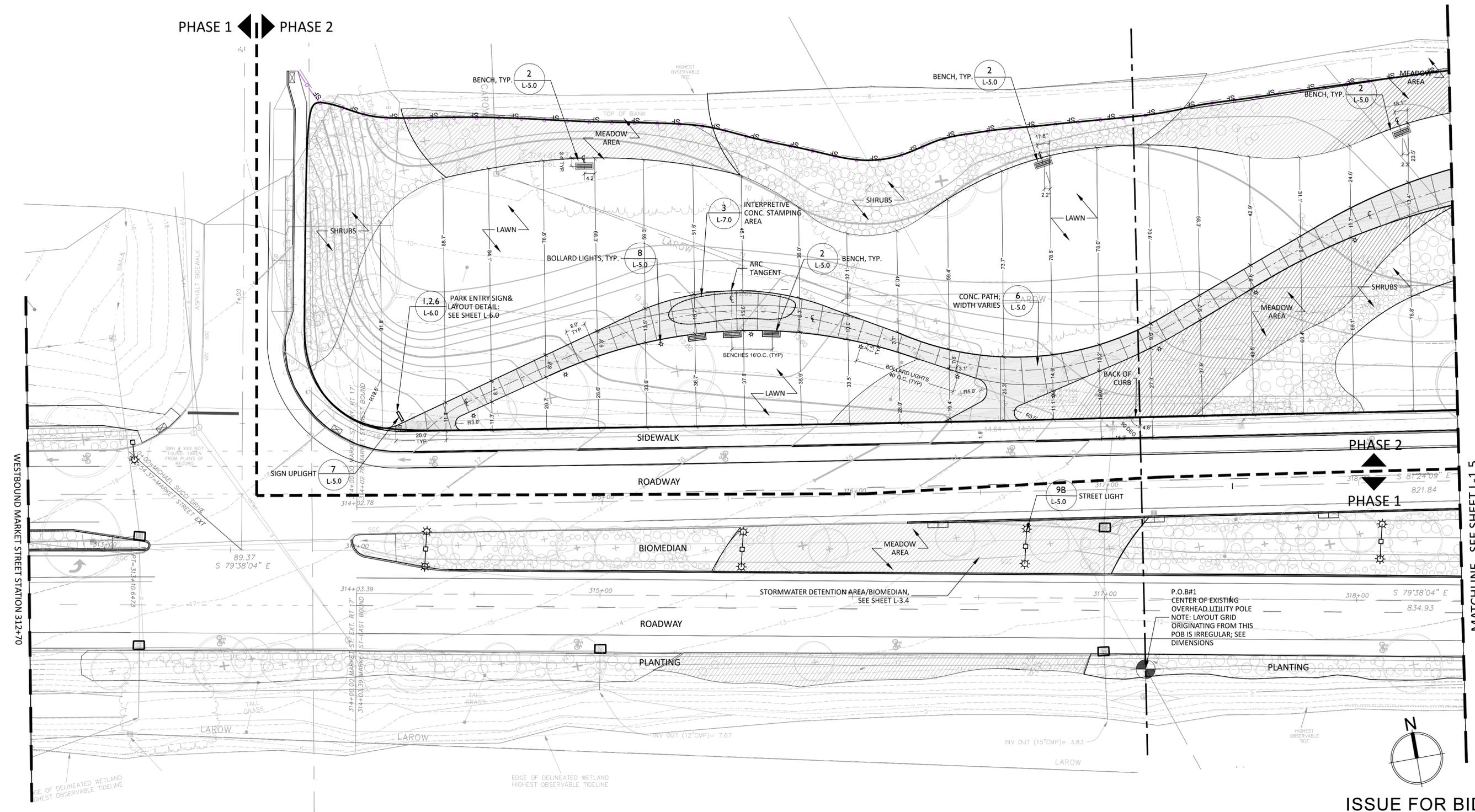
General Lighting Notes

1. This plan is for layout of bollard light fixtures only. Refer to CE plans for streetlight layout.
2. The contractor shall be responsible for coordinating all construction activities related to this lighting layout.
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PHASE 1 **PHASE 2**



ISSUE FOR BID

no.	revision	revision	date	by

PROJECT No. 13121
 DESIGNED BY:
 CHECKED BY:
 SCALE: 1"=20'



CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
LAYOUT & MATERIALS PLAN

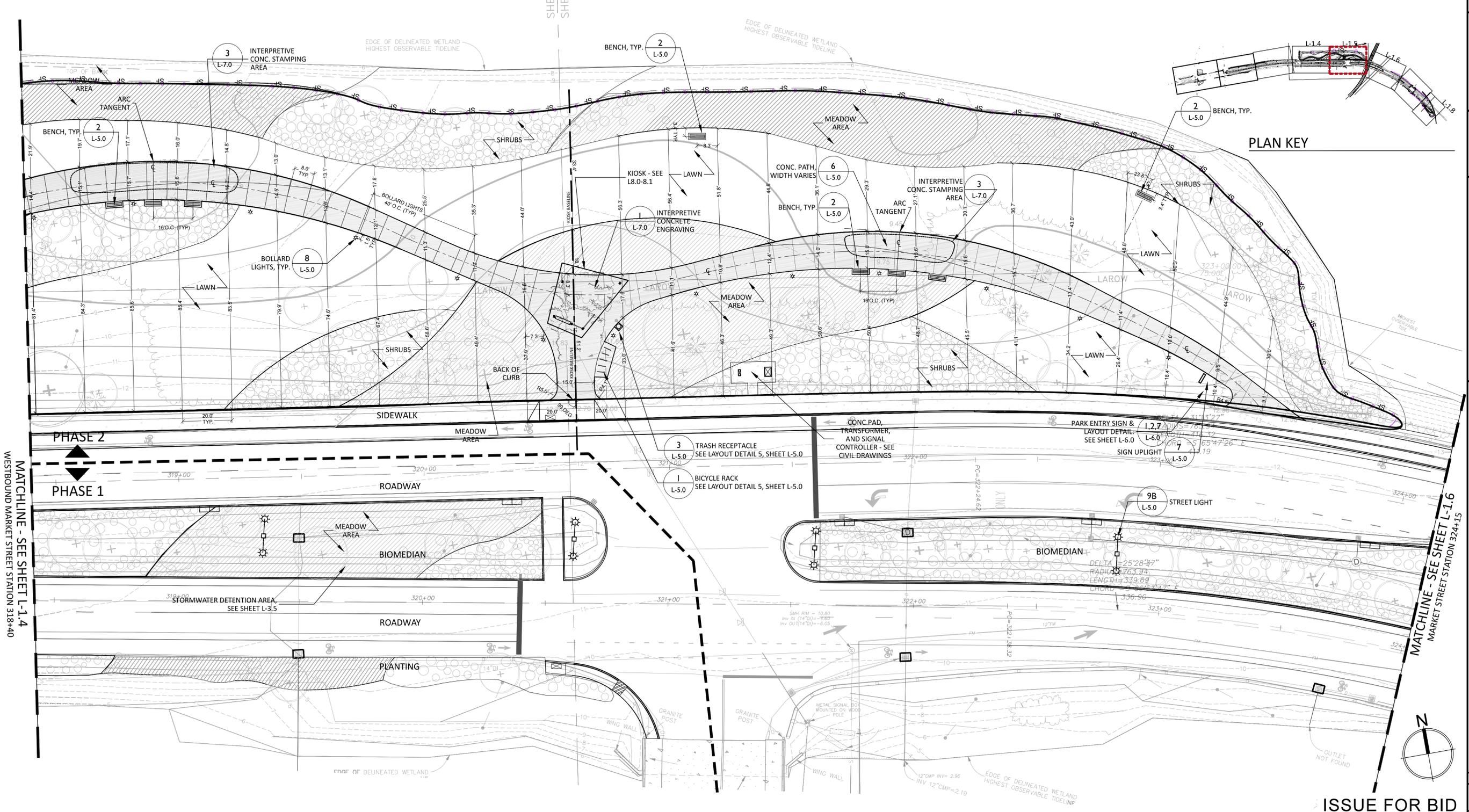
DATE: 11/9/15
 DRAWING No. L-1.4

General Lighting Notes

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Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
LAYOUT & MATERIALS PLAN

DATE: 11/9/2015
DRAWING No. L-1.5

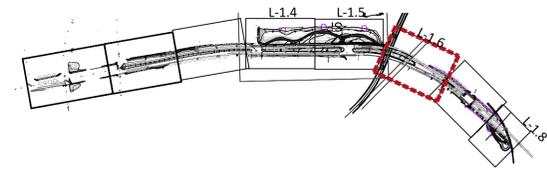
ISSUE FOR BID

General Lighting Notes

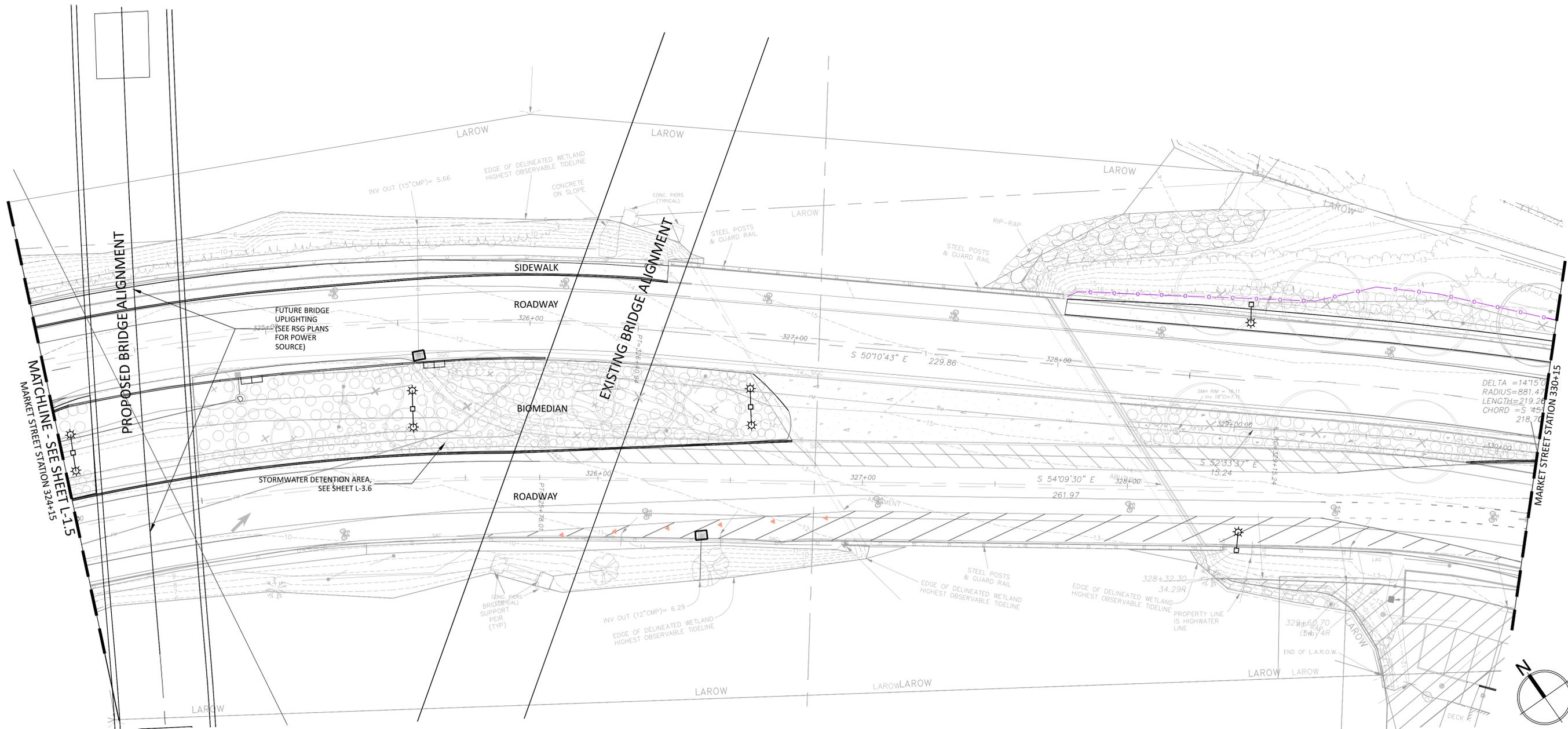
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LAYOUT & MATERIALS PLAN

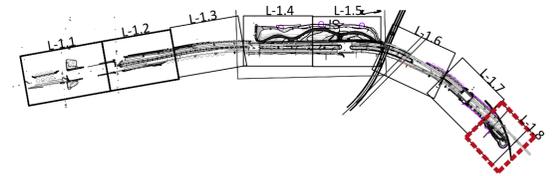
DATE: 11/9/2015
DRAWING No. L-1.6

General Lighting Notes

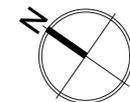
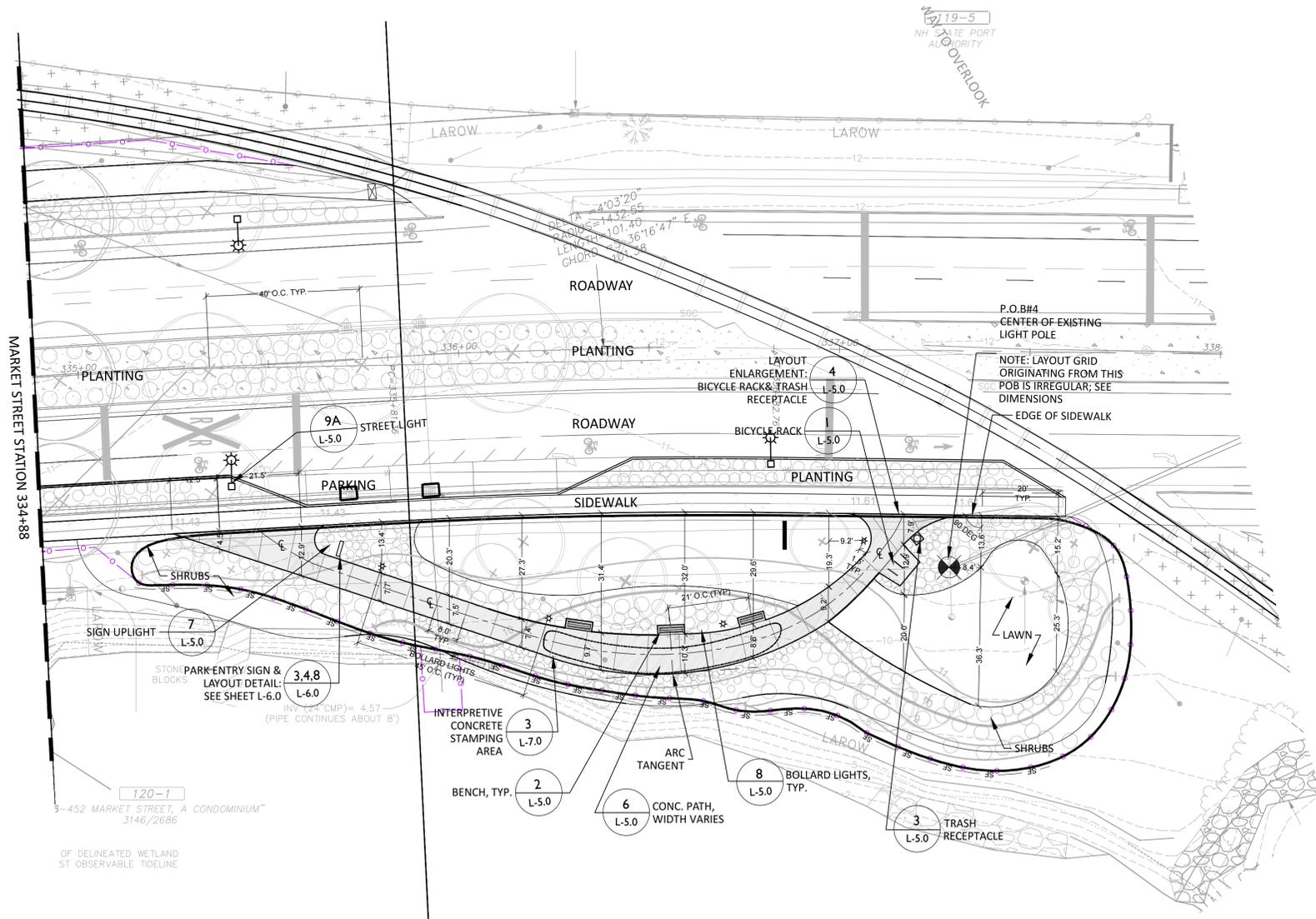
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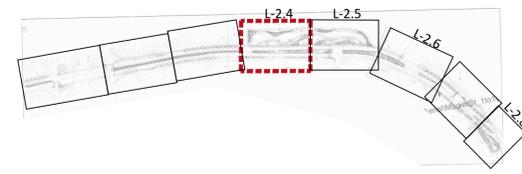
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MARKET STREET GATEWAY
LAYOUT & MATERIALS PLAN

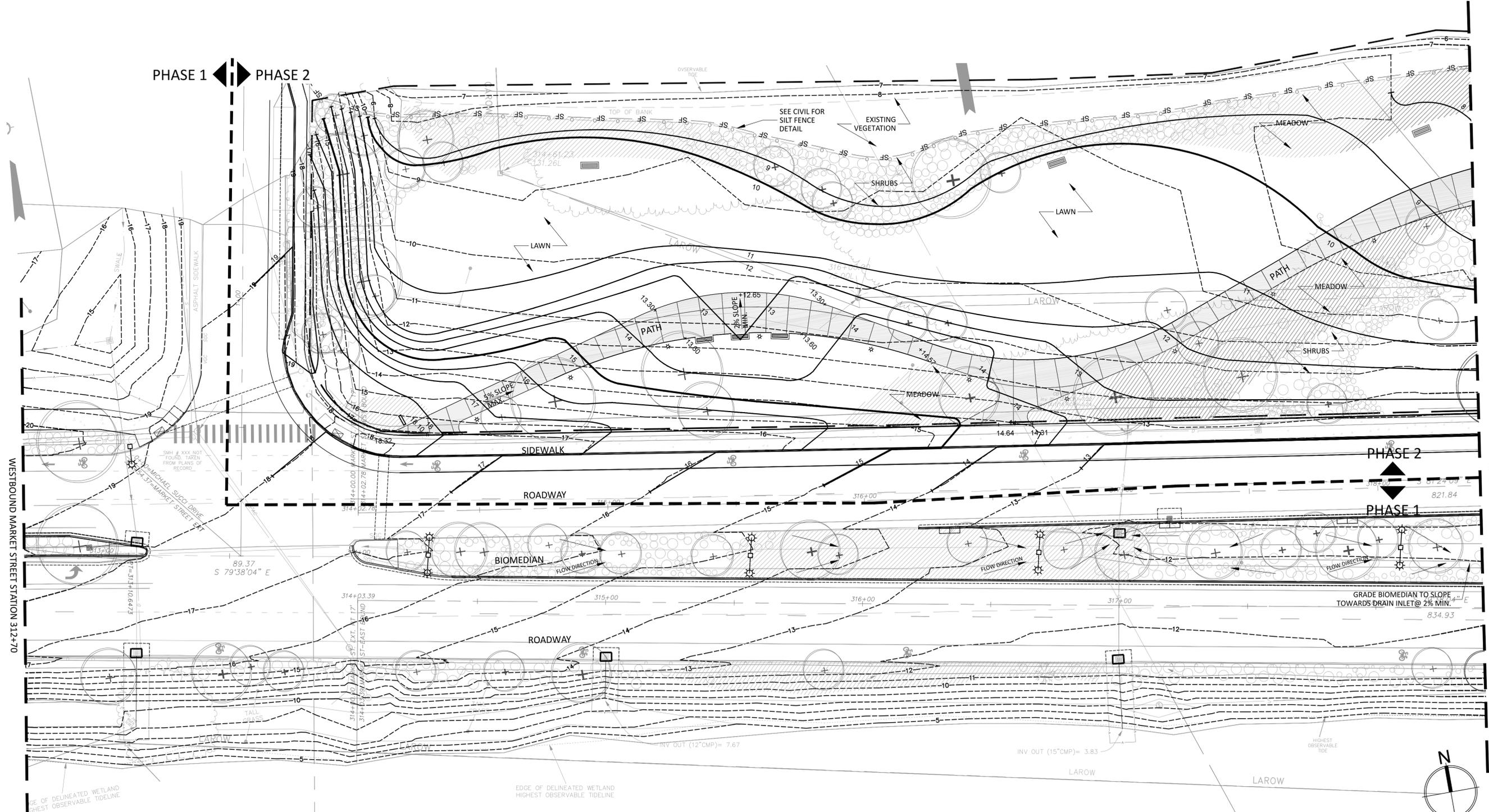
DATE: 11/9/15
DRAWING No. L-1.8

General Grading Notes

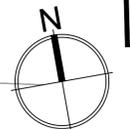
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7. Contractor shall ensure 2% minimum slope within Biomedian towards drain inlets.
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10. No grading or construction shall occur within tree protection areas.
11. Utility information shown is approximate only. Prior to excavation, appropriate utility companies shall be contacted and Dig-Safe Center shall be called at 1-800-DIG-SAFE, at least 72 hours (3 working days) in advance.



PLAN KEY



MATCHLINE - SEE SHEET L-2.5
WESTBOUND MARKET STREET STATION 318+40



ISSUE FOR BID

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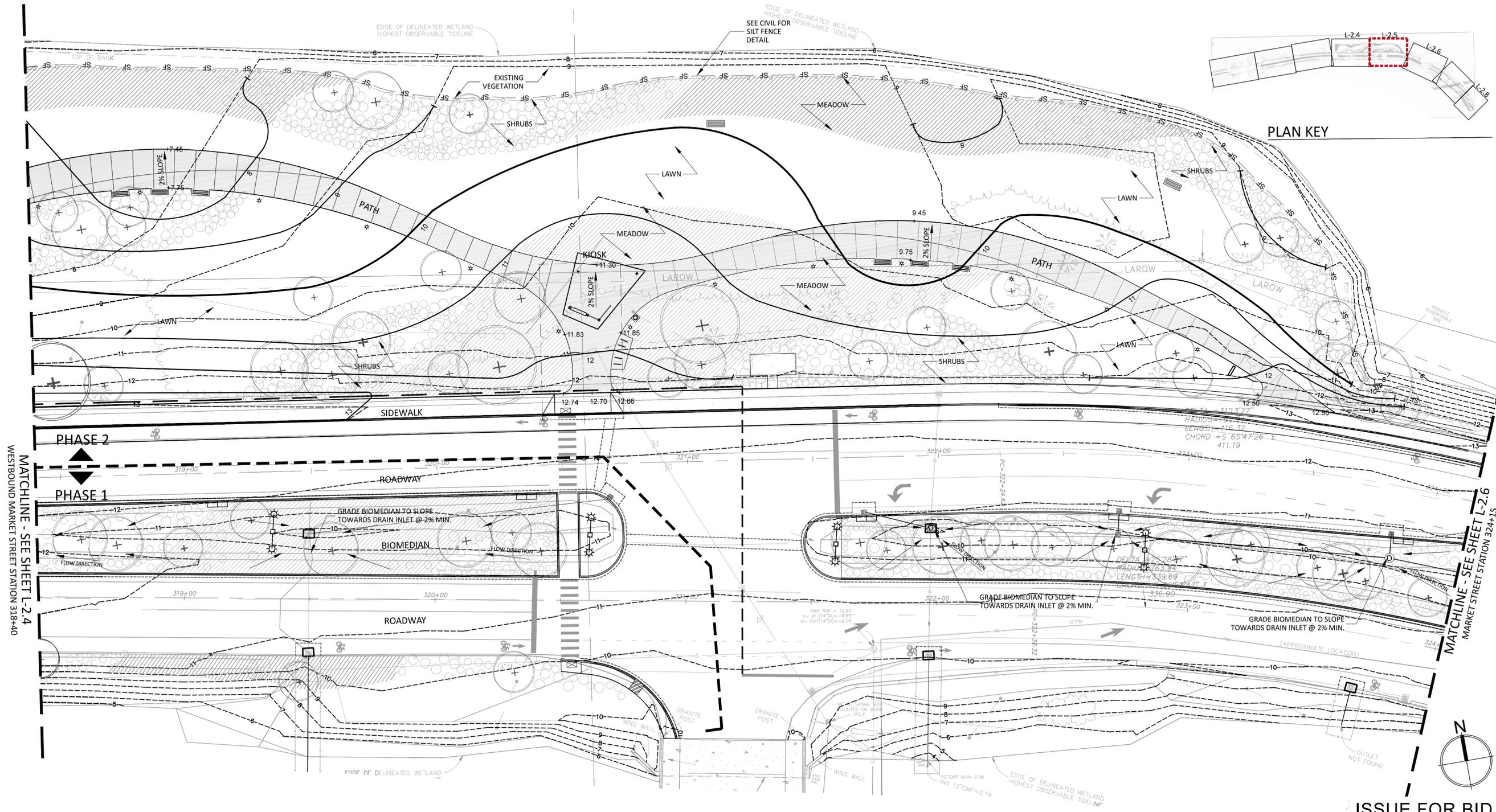
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
GRADING & DRAINAGE PLAN

DATE: 11/9/2015
DRAWING No. L-2.4

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MATCHLINE - SEE SHEET L-2.4
WESTBOUND MARKET STREET STATION 318+40

MATCHLINE - SEE SHEET L-2.6
MARKET STREET STATION 324+15

ISSUE FOR BID

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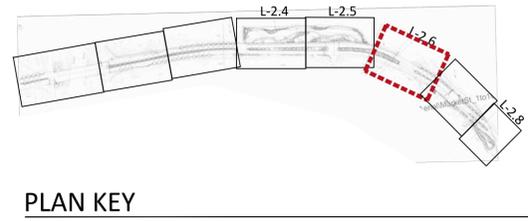
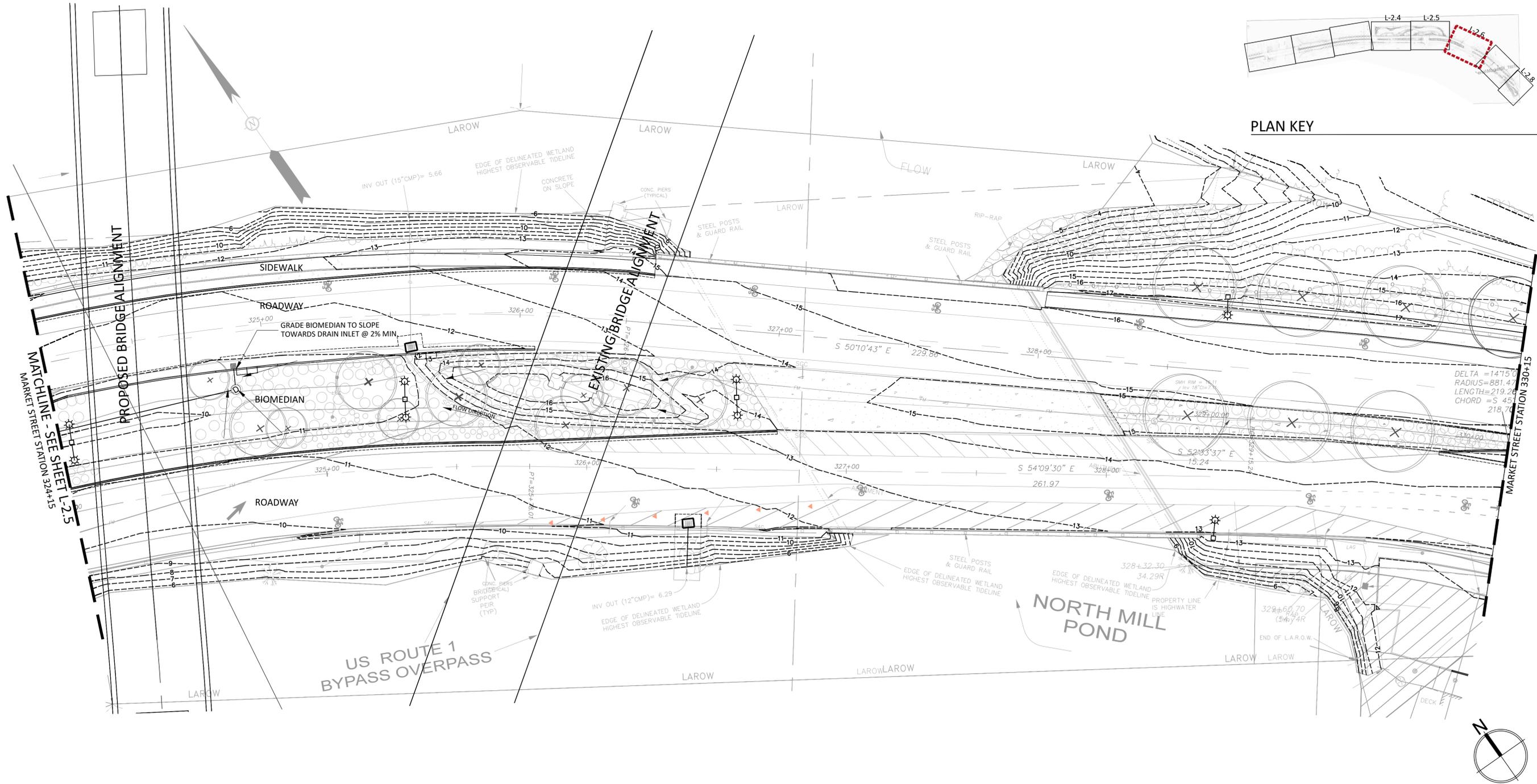
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
GRADING & DRAINAGE PLAN

DATE: 11/9/2015
DRAWING No. L-2.5

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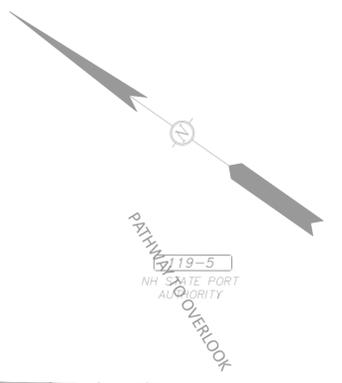
CITY OF PORTSMOUTH, NH
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GRADING & DRAINAGE PLAN

DATE: 11/9/2015
DRAWING No. L-2.6

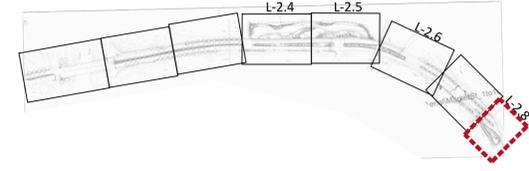
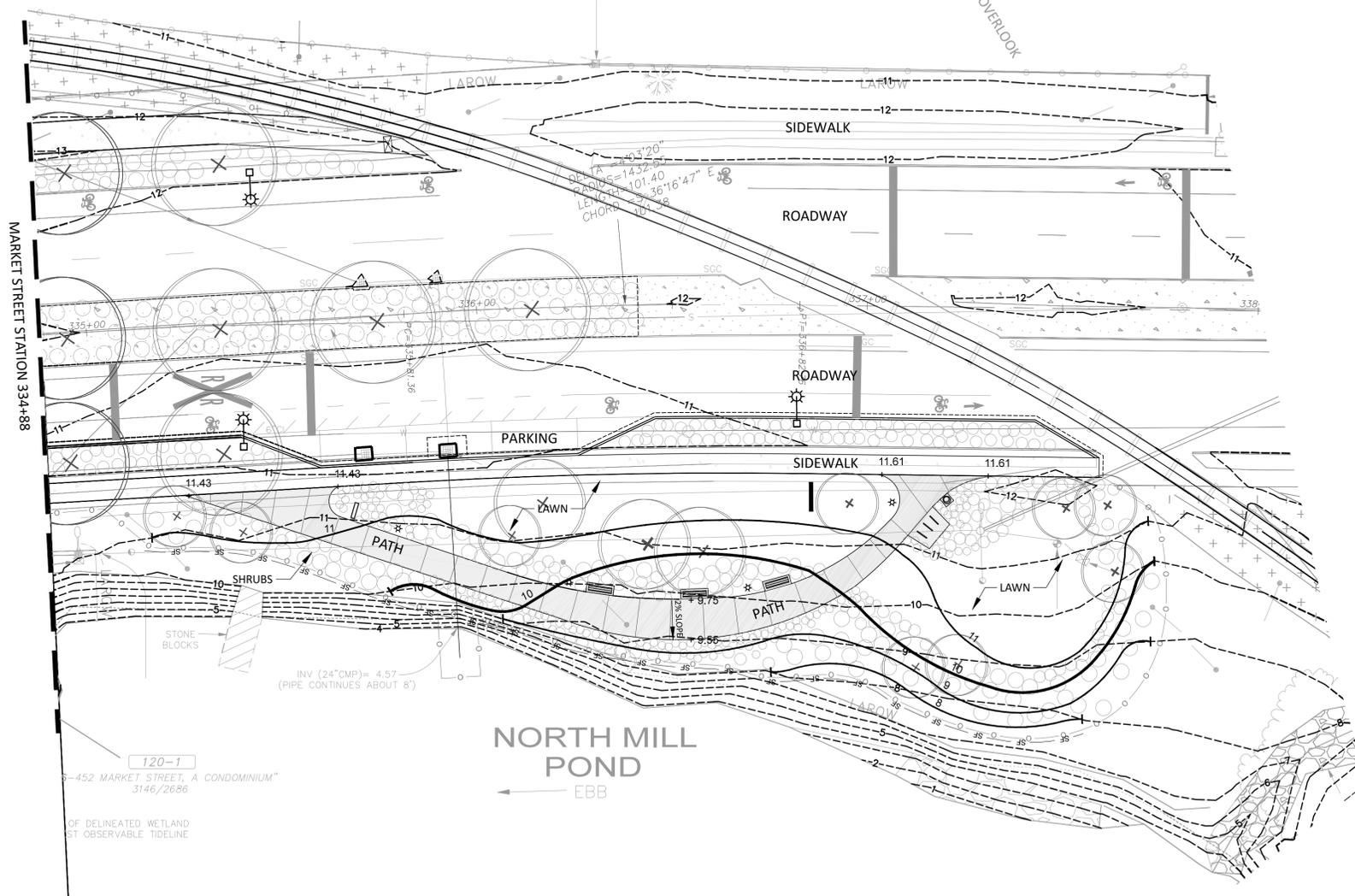
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19-5
NH STATE PORT
AUTHORITY
PATHWAY OVERLOOK



PLAN KEY

no.	revision	revision	date	by

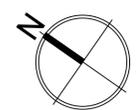
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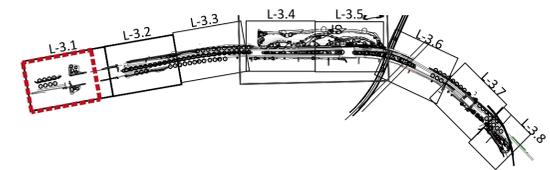
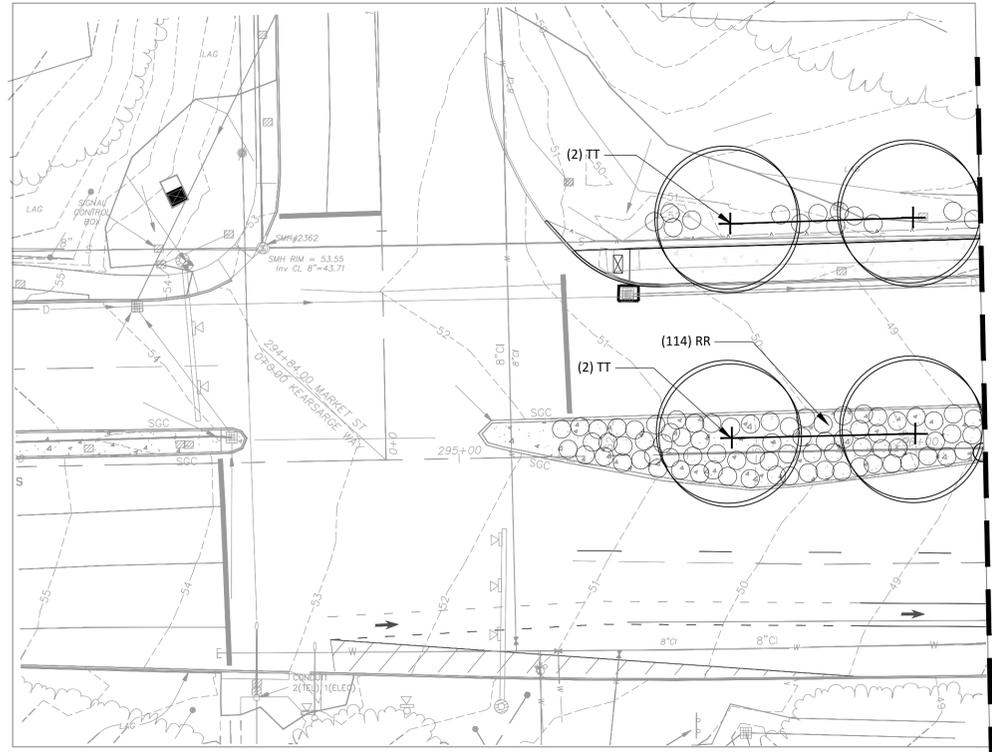
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OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

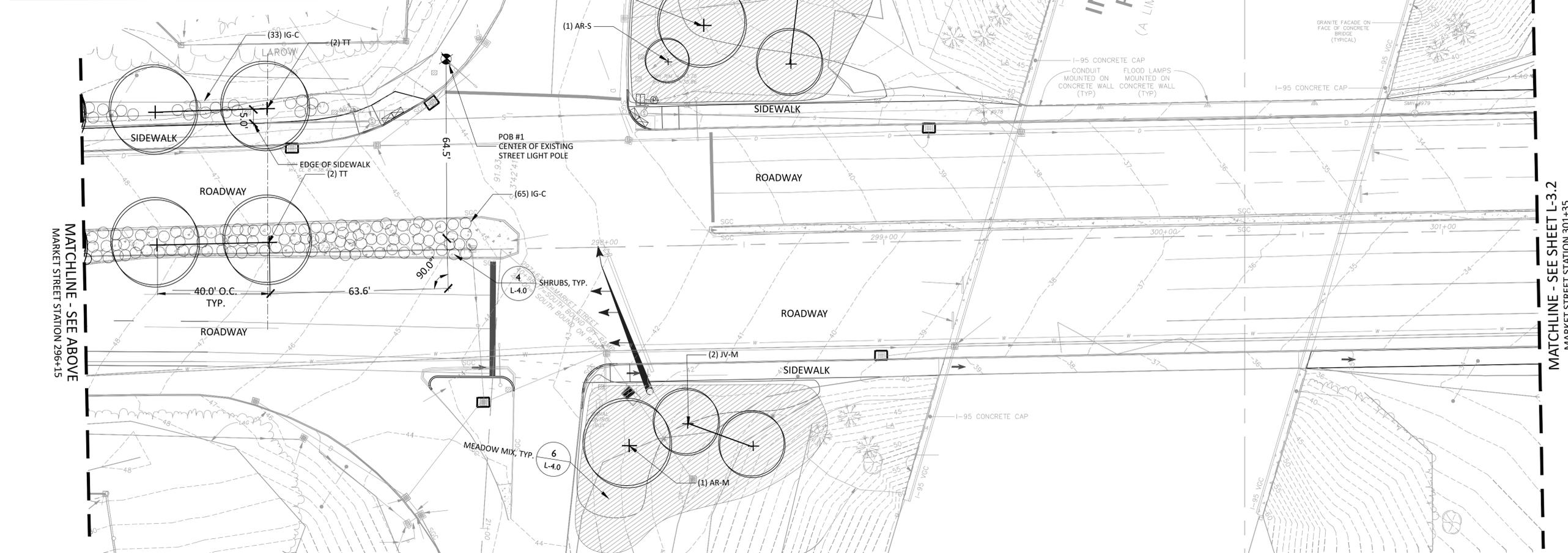
TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
Groundcover	278	RA	Rhus aromatica 'Grow Low'	Grow-low Fragrant Sumac	#3	CONT
Shrubs						
Parks & Biomedian Shrubs						
51	AM	Aronia melanocarpa	Black Chokeberry	#3	CONT	
48	CA	Clethra alnifolia	Summersweet	#3	CONT	
113	FG	Fothergilla gardenii	Dwarf Fothergilla	#3	CONT	
35	FM-MA	Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT	
15	FM	Fothergilla major	Large Fothergilla	#5	CONT	
201	IG	Ilex glabra	Inkberry Holly	#3	CONT	
178	IV-F	Ilex verticillata 'Winter Red'	Winterberry	#3	CONT	
10	IV-M	Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT	
256	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
276	MP	Myrica pennsylvanica	Bayberry	#5	CONT	
265	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
91	VC	Vaccinium corymbosum	Highbush Blueberry	#3	CONT	
38	VD	Viburnum dentatum	Arrowwood viburnum	#5	CONT	
Street Tree Underplanting						
636	IG-C	Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT	
693	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
603	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
Trees						
Street Trees						
14	AR	Acer rubrum 'October Glory'	Red Maple	4" cal.	B&B	
15	QR	Quercus borealis 'Rubra'	Red Oak	4" cal.	B&B	
12	SJ	Sophora japonica 'Regent'	Japanese Pagodatree	4" cal.	B&B	
35	TT	Tilia tomentosa 'Sterling Silver'	Silver Linden	4" cal.	B&B	
13	UP	Ulmus parvifolia 'Allee'	Chinese Elm	4" cal.	B&B	
Park & Biomedian Trees						
24	AC-S	Amelanchier canadensis	Shadblow - Small	5-6' clump	B&B	
24	AC-M	Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B	
3	AR-S	Acer rubrum	Red Maple - Small	2" cal.	B&B	
4	AR-M	Acer rubrum	Red Maple - Medium	3" cal.	B&B	
30	BN-S	Betula nigra	River Birch - Small	6-8' 50% mix single / clump	B&B	
21	BN-M	Betula nigra	River Birch - Medium	8-10' 50% mix single / clump	B&B	
6	JV-S	Juniperus virginiana	Red Cedar - Small	6-7'	B&B	
12	JV-M	Juniperus virginiana	Red Cedar - Medium	7-8'	B&B	
14	NS-S	Nyssa sylvatica	Black Tupelo - Small	2" cal.	B&B	
7	NS-M	Nyssa sylvatica	Black Tupelo - Medium	3" cal.	B&B	
Perennials & Grasses						
87	C-AC	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	CONT	
74	EF	Eupatorium fistulosum	Joe Pye Weed	#2	CONT	
156	EP	Echinacea purpurea 'White Swan'	Echinacea	#2	CONT	
191	LS	Liatris scariosa	Tall Gayfeather	#2	CONT	
407	SH	Sporobolus heterolepis	Prairie Dropseed	#2	CONT	
162	SNA	Symphoricarpos novae-angliae	New England Aster	#2	CONT	
421	SS	Schizachyrium scoparium	Little Bluestem	#2	CONT	

General Planting Plan Notes

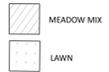
- Contractor shall begin maintenance immediately after planting and shall continue until final acceptance. Contractor shall be responsible for all means and methods of watering and maintenance.
- The Landscape contractor shall supply all plant materials in quantities sufficient to complete all plantings shown on this drawing. Clarify any discrepancies with the landscape architect prior to ordering plant material.
- All materials shall conform to the guidelines established by the American Association of Nurserymen.
- All plants shall bear the same relationship to finish grade as the original grades before digging.
- The landscape contractor shall guarantee all plant materials for one(1) full year from date of substantial completion.
- All plant materials are subject to the approval of the landscape architect at the nursery and at the site.
- All areas of the site which have been disturbed and not otherwise developed shall be loamed with a minimum depth of 6" of topsoil and seeded as specified.
- Landscape contractor is encouraged to provide the landscape architect with concerns and/or suggestions with regard to proposed plant material selection prior to placing a purchase order.
- All trees located adjacent to walks and drives shall have 6' of clear height to first branching.
- Contractor shall verify all tree removals with landscape architect prior to start of construction.
- Contractor shall obtain approval for proposed lawn seed mix prior to installation.
- No plant shall be put into the ground before rough grading has been finished and approved by the project landscape architect.
- All plants shall be balled and wrapped or container grown as specified. No container grown stock will be accepted if it is root bound.
- All root wrapping material made of synthetics or plastics shall be removed at the time of planting.
- With container grown stock, the container shall be removed and the container ball shall be cut through the surface in two vertical locations.
- The location of trees, shrubs and bedlines shall be staked for approval by the landscape architect prior to installation. The contractor shall notify the landscape architect 48 hours prior to required site visit.
- All broad leaf evergreen plants shall be sprayed with an antidesiccant at the beginning of their first winter.
- All plants shall be installed as per details and the contract specifications. The landscape contractor shall refer to the contract specifications for additional requirements.
- All plants and stakes shall be set plumb unless otherwise specified.
- The landscape contractor shall provide loam fill as per the contract specifications.
- All plants shall be watered thoroughly twice during the first 24-hour period after planting. All plants shall then be watered by the contractor, as necessary to insure health until final acceptance.
- The landscape contractor shall refer to the plant list and planting specifications for seasonal requirements and other restrictions related to the time of planting.



PLAN KEY



LEGEND



no.	revision	date	by
1		3/26/15	
2		5/8/15	

PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: 1"=20'
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RSRG
the science of insight
49 South Main St, Suite 203, Concord, NH 03302
888.774.5993 www.rsg.net

Richardson & Associates
Landscape Architects

ISSUE FOR BID

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING PLAN

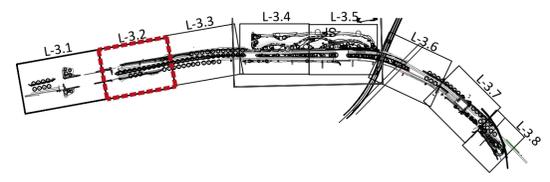
DATE: 11/9/2015
DRAWING No.
L-3.1

OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
Groundcover	278	RA	Rhus aromatica 'Grow low'	Grow-low Fragrant Sumac	#3	CONT
Shrubs						
<i>Parks & Biomedian Shrubs</i>						
51	AM	Aronia melanocarpa	Black Chokeberry	#3	CONT	
48	CA	Clethra alnifolia	Summersweet	#3	CONT	
113	FG	Fothergilla gardenii	Dwarf Fothergilla	#3	CONT	
35	FM-MA	Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT	
15	FM	Fothergilla major	Large Fothergilla	#5	CONT	
201	IG	Ilex glabra	Inkberry Holly	#3	CONT	
178	IV-F	Ilex verticillata 'Winter Red'	Winterberry	#3	CONT	
10	IV-M	Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT	
256	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
276	MP	Myrica pennsylvanica	Bayberry	#5	CONT	
265	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
91	VC	Vaccinium corymbosum	Highbush Blueberry	#3	CONT	
38	VD	Viburnum dentatum	Arrowwood viburnum	#5	CONT	
<i>Street Tree Underplanting</i>						
636	IG-C	Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT	
693	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
603	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
Trees						
<i>Street Trees</i>						
14	AR	Acer rubrum 'October Glory'	Red Maple	4" cal.	B&B	
15	QR	Quercus borealis 'Rubra'	Red Oak	4" cal.	B&B	
12	SJ	Sophora japonica 'Regent'	Japanese Pagodatree	4" cal.	B&B	
35	TT	Tilia tomentosa 'Sterling Silver'	Silver Linden	4" cal.	B&B	
13	UP	Ulmus parvifolia 'Allee'	Chinese Elm	4" cal.	B&B	
<i>Park & Biomedian Trees</i>						
24	AC-S	Amelanchier canadensis	Shadblow - Small	5-6' clump	B&B	
24	AC-M	Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B	
3	AR-S	Acer rubrum	Red Maple - Small	2" cal.	B&B	
4	AR-M	Acer rubrum	Red Maple - Medium	3" cal.	B&B	
30	BN-S	Betula nigra	River Birch - Small	6-8' 50% mix single / clump	B&B	
21	BN-M	Betula nigra	River Birch - Medium	8-10' 50% mix single / clump	B&B	
6	JV-S	Juniperus virginiana	Red Cedar - Small	6-7'	B&B	
12	JV-M	Juniperus virginiana	Red Cedar - Medium	7-8'	B&B	
14	NS-S	Nyssa sylvatica	Black Tupelo - Small	2" cal.	B&B	
7	NS-M	Nyssa sylvatica	Black Tupelo - Medium	3" cal.	B&B	
Perennials & Grasses						
87	C-AC	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	CONT	
74	EP	Eupatorium fistulosum	Joe Pye Weed	#2	CONT	
156	EP	Echinacea purpurea 'White Swan'	Echinacea	#2	CONT	
191	LS	Liatris scariosa	Tall Gayfeather	#2	CONT	
407	SH	Sporobolus heterolepis	Prairie Dropseed	#2	CONT	
162	SNA	Symphoricarpon novae-angliae	New England Aster	#2	CONT	
421	SS	Schizachyrium scoparium	Little Bluestem	#2	CONT	

General Planting Plan Notes

- Contractor shall begin maintenance immediately after planting and shall continue until final acceptance. Contractor shall be responsible for all means and methods of watering and maintenance.
- The Landscape contractor shall supply all plant materials in quantities sufficient to complete all plantings shown on this drawing. Clarify any discrepancies with the landscape architect prior to ordering plant material.
- All materials shall conform to the guidelines established by the American Association of Nurserymen.
- All plants shall bear the same relationship to finish grade as the original grades before digging.
- The landscape contractor shall guarantee all plant materials for one (1) full year from date of substantial completion.
- All plant materials are subject to the approval of the landscape architect at the nursery and at the site.
- All areas of the site which have been disturbed and not otherwise developed shall be loamed with a minimum depth of 6" of topsoil and seeded as specified.
- Landscape contractor is encouraged to provide the landscape architect with concerns and/or suggestions with regard to proposed plant material selection prior to placing a purchase order.
- All trees located adjacent to walks and drives shall have 6' of clear height to first branching.
- Contractor shall verify all tree removals with landscape architect prior to start of construction.
- Contractor shall obtain approval for proposed lawn seed mix prior to installation.
- No plant shall be put into the ground before rough grading has been finished and approved by the project landscape architect.
- All plants shall be balled and wrapped or container grown as specified. No container grown stock will be accepted if it is root bound. All root wrapping material made of synthetics or plastics shall be removed at the time of planting.
- With container grown stock, the container shall be removed and the container ball shall be cut through the surface in two vertical locations.
- The location of trees, shrubs and bedlines shall be staked for approval by the landscape architect prior to installation. The contractor shall notify the landscape architect 48 hours prior to required site visit.
- All broad leaf evergreen plants shall be sprayed with an antidesiccant at the beginning of their first winter.
- All plants shall be installed as per details and the contract specifications. The landscape contractor shall refer to the contract specifications for additional requirements.
- All plants and stakes shall be set plumb unless otherwise specified.
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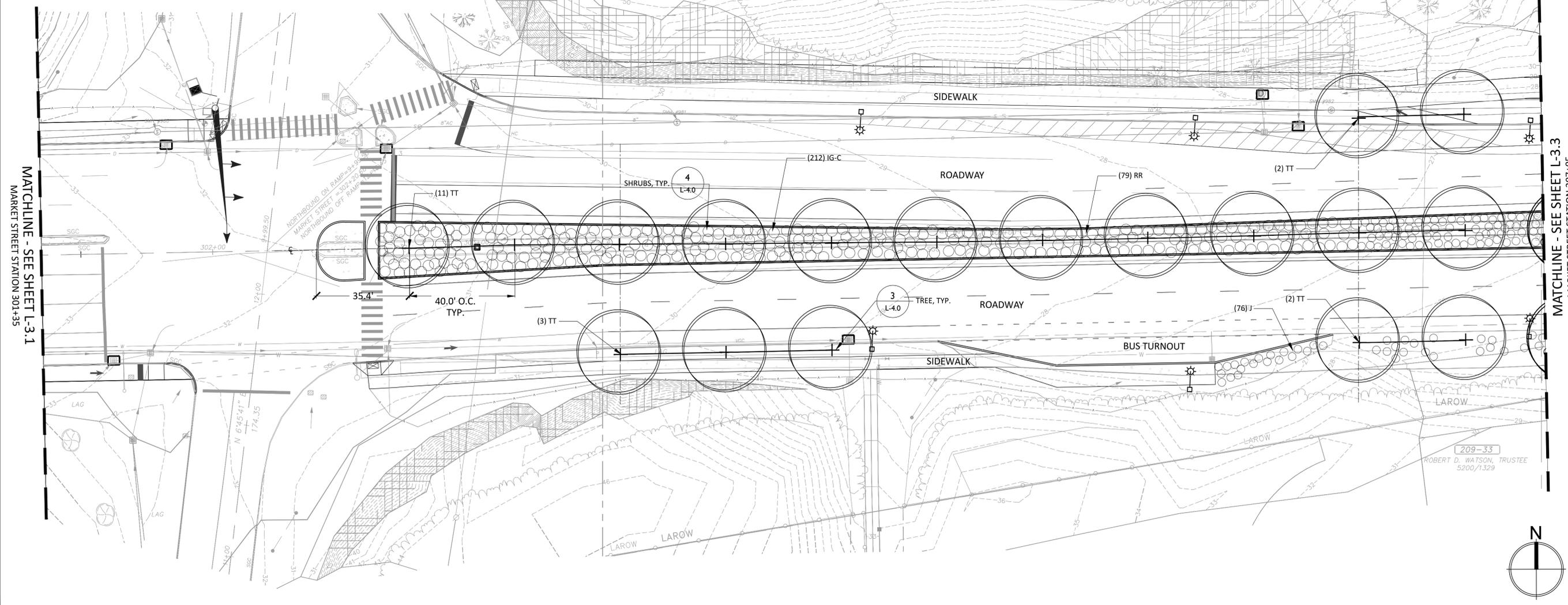
PLAN KEY

no.	revision	date	by
1		3/26/15	
2		5/8/15	

PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: 1"=20'
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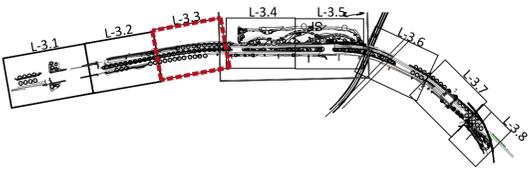
MATCHLINE - SEE SHEET L-3.1
MARKET STREET STATION 301+35

MATCHLINE - SEE SHEET L-3.3
MARKET STREET STATION 307+05

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING PLAN

DATE: 11/9/2015
DRAWING No. L-3.2

ISSUE FOR BID



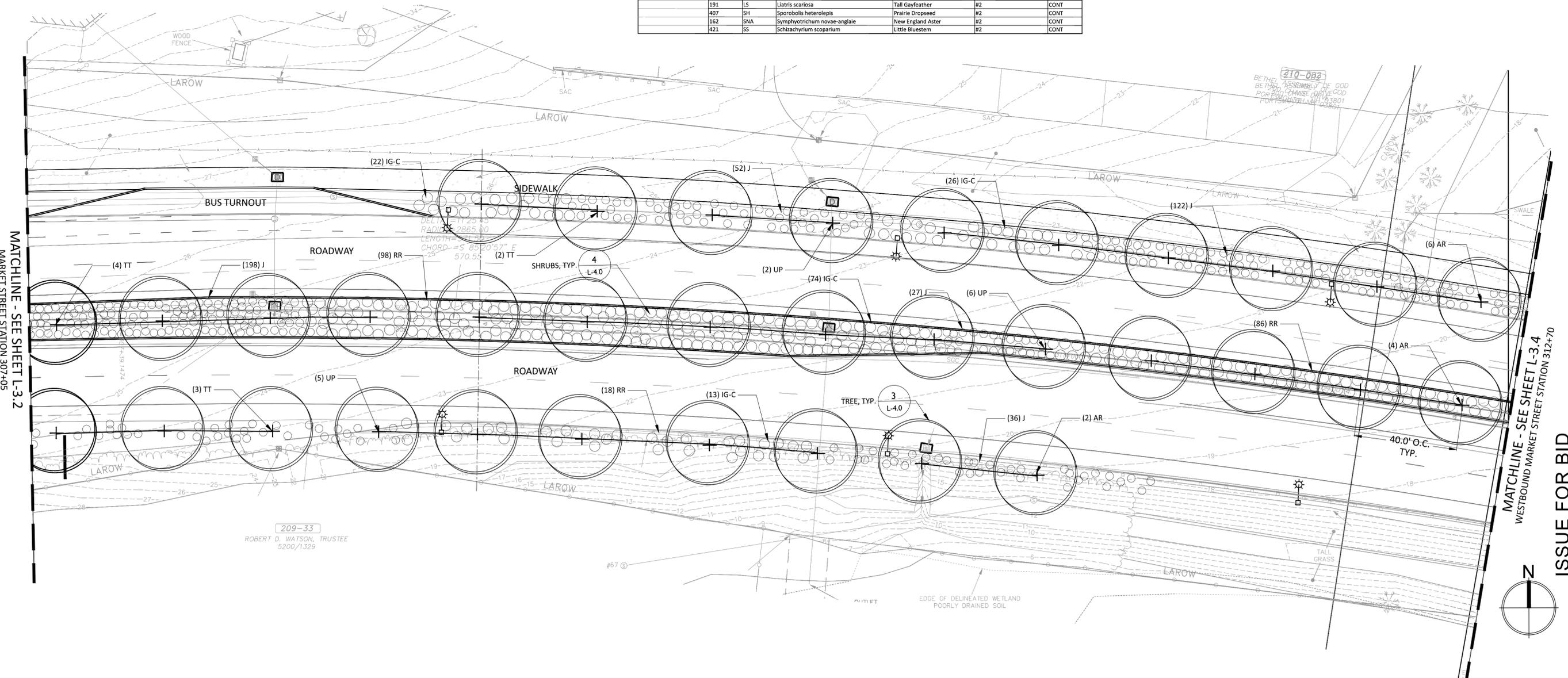
PLAN KEY

OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
Groundcover	278	RA	Rhus aromatica 'Glow' low	Glow Fragrant Sumac	#3	CONT
Shrubs						
Parks & Biomedian Shrubs	51	AM	Aronia melanocarpa	Black Chokeberry	#3	CONT
	48	CA	Clethra alnifolia	Summersweet	#3	CONT
	113	FG	Fothergilla gardenii	Dwarf Fothergilla	#3	CONT
	35	FM-MA	Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT
	15	FM	Fothergilla major	Large Fothergilla	#5	CONT
	201	IG	Ilex glabra	Inkberry Holly	#3	CONT
	178	IV-F	Ilex verticillata 'Winter Red'	Winterberry	#3	CONT
	10	IV-M	Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT
	256	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT
	276	MP	Myrica pennsylvanica	Bayberry	#5	CONT
	265	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT
	91	VC	Vaccinium corymbosum	Highbush Blueberry	#3	CONT
	38	VD	Viburnum dentatum	Arrowwood viburnum	#5	CONT
Street Tree Underplanting						
	636	IG-C	Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT
	693	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT
	603	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT
Trees						
Street Trees						
	14	AR	Acer rubrum 'October Glory'	Red Maple	4" cal.	B&B
	15	QR	Quercus borealis 'Rubra'	Red Oak	4" cal.	B&B
	12	SJ	Sophora japonica 'Regent'	Japanese Pagodatre	4" cal.	B&B
	35	TT	Tilia tomentosa 'Sterling Silver'	Silver Linden	4" cal.	B&B
	13	UP	Ulmus parvifolia 'Allee'	Chinese Elm	4" cal.	B&B
Park & Biomedian Trees						
	24	ACS	Amelanchier canadensis	Shadblow - Small	5-6' clump	B&B
	24	AC-M	Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B
	3	AR-S	Acer rubrum	Red Maple - Small	2" cal.	B&B
	4	AR-M	Acer rubrum	Red Maple - Medium	3" cal.	B&B
	30	BN-S	Betula nigra	River Birch - Small	6-8' 50% mix single / clump	B&B
	21	BN-M	Betula nigra	River Birch - Medium	8-10' 50% mix single / clump	B&B
	6	JV-S	Juniperus virginiana	Red Cedar - Small	6-7'	B&B
	12	JV-M	Juniperus virginiana	Red Cedar - Medium	7-8'	B&B
	14	NS-S	Nyssa sylvatica	Black Tupelo - Small	2" cal.	B&B
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Perennials & Grasses						
	87	C-AC	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	CONT
	74	EF	Eupatorium fistulosum	Joe Pye Weed	#2	CONT
	156	EP	Echinacea purpurea 'White Swan'	Echinacea	#2	CONT
	191	LS	Liatris scariosa	Tall Gayfeather	#2	CONT
	407	SH	Sporobolus heterolepis	Prairie Dropseed	#2	CONT
	162	SNA	Symphoricarpon novae-angliae	New England Aster	#2	CONT
	421	SS	Schizachyrium scoparium	Little Bluestem	#2	CONT

General Planting Plan Notes

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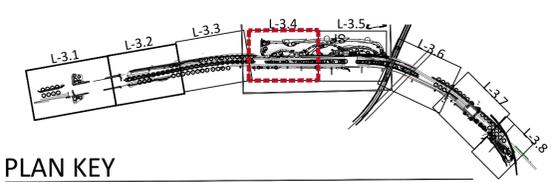
PROJECT No. 13121	DESIGNED BY:	CHECKED BY:	SCALE: 1"=20'
49 South Main St, Suite 203, Concord, NH 03302 888.774.5995 www.rsg.net			
Richardson & Associates Landscape Architects			
CITY OF PORTSMOUTH, NH MARKET STREET GATEWAY PLANTING PLAN			
DATE: 11/9/2015 DRAWING No. L-3.3			

General Planting Plan Notes

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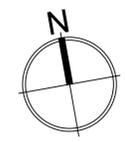
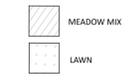
OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

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<i>Parks & Biomedical Shrubs</i>						
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	13	UP	Ulmus parvifolia 'Allee'	Chinese Elm	4" cal.	B&B
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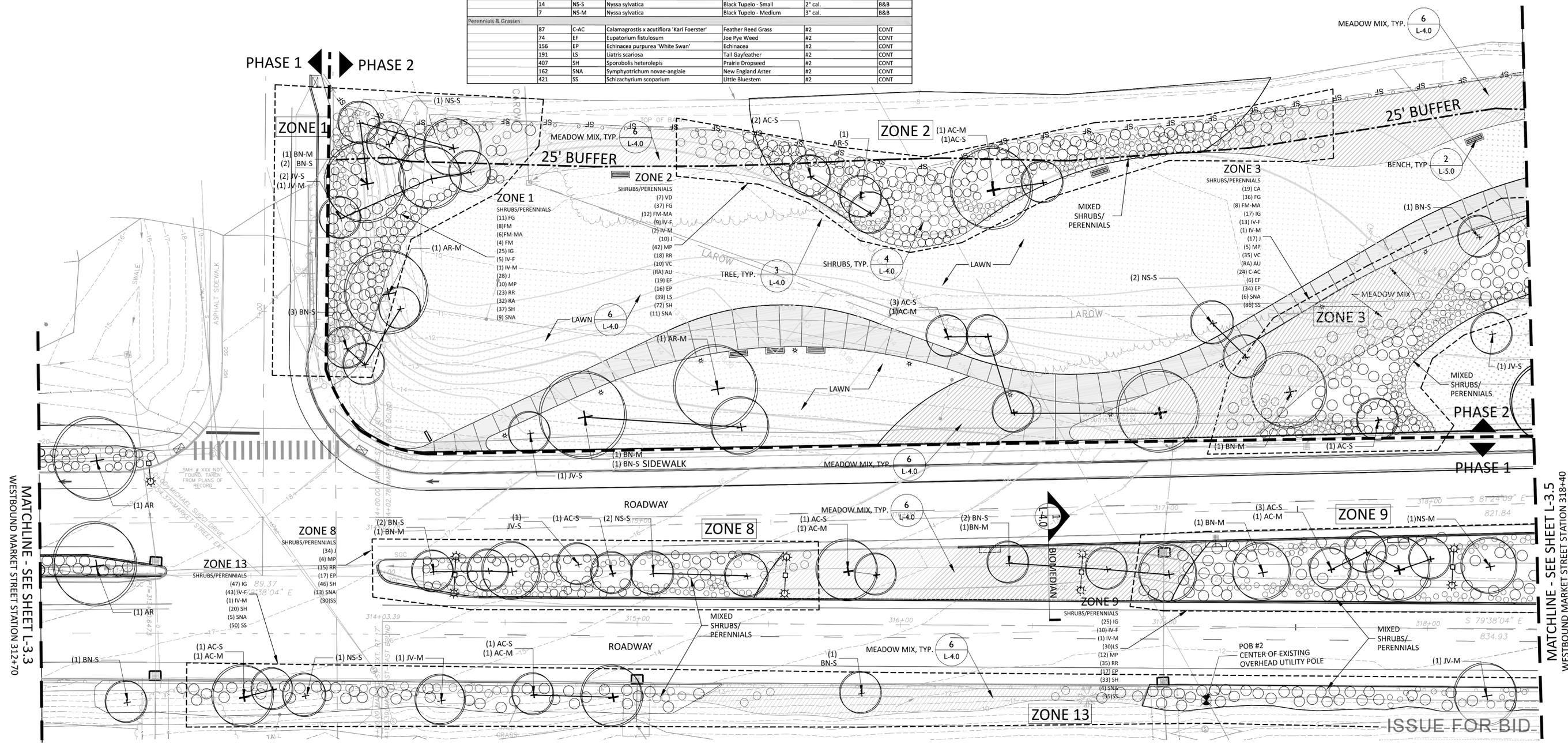


PLAN KEY

LEGEND



PHASE 1 PHASE 2



no.	revision	date	by
1		3/26/15	
2		5/8/15	

PROJECT No. 13121	DESIGNED BY:	CHECKED BY:	SCALE: 1"=20'
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
 PLANTING PLAN

DATE: 11/9/2015
 DRAWING No. L-3.4

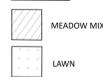
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 WESTBOUND MARKET STREET STATION 312+70

MATCHLINE - SEE SHEET L-3.5
 WESTBOUND MARKET STREET STATION 318+40

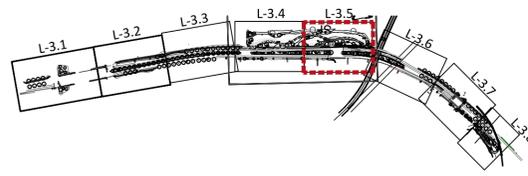
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LEGEND

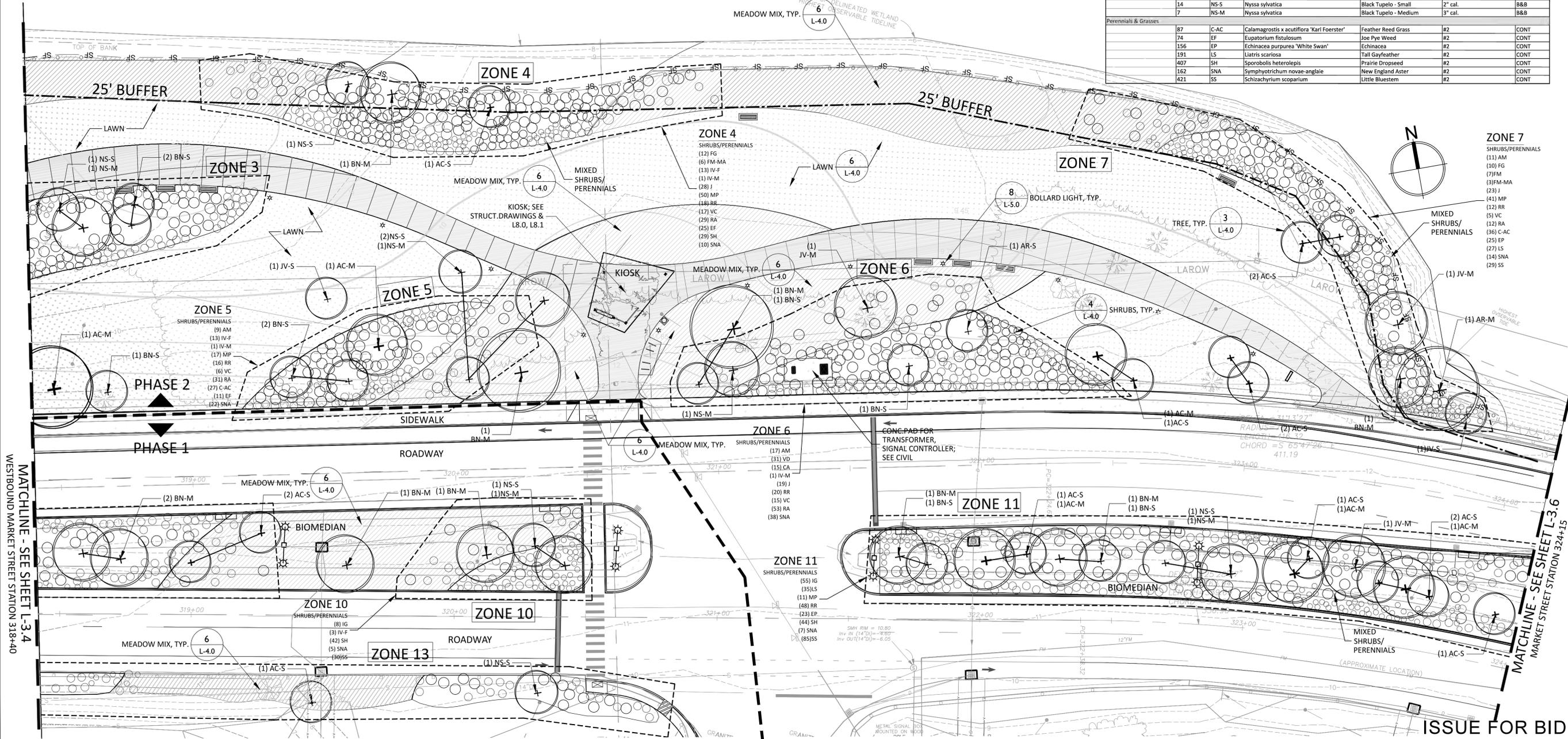


PLAN KEY



OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
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Shrubs						
Parks & Biomedian Shrubs						
51	AM	Aronia melanocarpa	Black Chokeberry	#3	CONT	
48	CA	Clethra alnifolia	Summersweet	#3	CONT	
113	FG	Fothergilla gardenii	Dwarf Fothergilla	#3	CONT	
35	FM-MA	Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT	
15	FM	Fothergilla major	Large Fothergilla	#5	CONT	
201	IG	Ilex glabra	Inkberry Holly	#3	CONT	
178	IV-F	Ilex verticillata 'Winter Red'	Winterberry	#3	CONT	
10	IV-M	Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT	
256	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
276	MP	Myrica pennsylvanica	Bayberry	#5	CONT	
265	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
91	VC	Vaccinium corymbosum	Highbush Blueberry	#3	CONT	
38	VD	Viburnum dentatum	Arrowwood viburnum	#5	CONT	
Street Tree Underplanting						
636	IG-C	Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT	
693	J	Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT	
603	RR	Rosa rugosa 'Alba'	Beach Rose	#3	CONT	
Trees						
Street Trees						
14	AR	Acer rubrum 'October Glory'	Red Maple	4" cal.	B&B	
15	QR	Quercus borealis 'Rubra'	Red Oak	4" cal.	B&B	
12	SJ	Sophora japonica 'Regent'	Japanese Pagodatree	4" cal.	B&B	
35	TT	Tilia tomentosa 'Sterling Silver'	Silver Linden	4" cal.	B&B	
13	UP	Ulmus parvifolia 'Ailex'	Chinese Elm	4" cal.	B&B	
Park & Biomedian Trees						
24	AC-S	Amelanchier canadensis	Shadblow - Small	5-6' clump	B&B	
24	AC-M	Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B	
3	AR-S	Acer rubrum	Red Maple - Small	2" cal.	B&B	
4	AR-M	Acer rubrum	Red Maple - Medium	3" cal.	B&B	
30	BN-S	Betula nigra	River Birch - Small	6-8' 50% mix single / clump	B&B	
21	BN-M	Betula nigra	River Birch - Medium	8-10' 50% mix single / clump	B&B	
6	JV-S	Juniperus virginiana	Red Cedar - Small	6-7'	B&B	
12	JV-M	Juniperus virginiana	Red Cedar - Medium	7-8'	B&B	
14	NS-S	Nyssa sylvatica	Black Tupelo - Small	2" cal.	B&B	
7	NS-M	Nyssa sylvatica	Black Tupelo - Medium	3" cal.	B&B	
Perennials & Grasses						
87	C-AC	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	CONT	
74	EF	Eupatorium fistulosum	Joe Pye Weed	#2	CONT	
156	EP	Echinacea purpurea 'White Swan'	Echinacea	#2	CONT	
191	LS	Liatris scariosa	Tall Gayfeather	#2	CONT	
407	SH	Sporobolus heterolepis	Prairie Dropseed	#2	CONT	
162	SMA	Symphoricarum novae-angliae	New England Aster	#2	CONT	
421	SS	Schizachyrium scoparium	Little Bluestem	#2	CONT	



by	
date	3/26/15
revision	5/8/15
no.	1
	2

PROJECT No.	13121
DESIGNED BY:	
CHECKED BY:	
SCALE:	1"=20'

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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING PLAN

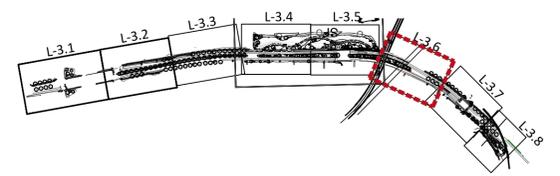
DATE:	11/9/2015
DRAWING No.	L-3.5

OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
Groundcover	278	RA	Rhus aromatica 'Grow low'	Grow-low Fragrant Sumac	#3	CONT
Shrubs						
Parks & Biomedian Shrubs						
51	AM		Aronia melanocarpa	Black Chokeberry	#3	CONT
48	CA		Clethra alnifolia	Summersweet	#3	CONT
113	FG		Fothergilla gardenii	Dwarf Fothergilla	#3	CONT
35	FM-MA		Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT
15	FM		Fothergilla major	Large Fothergilla	#5	CONT
201	IG		Ilex glabra	Inkberry Holly	#3	CONT
178	IV-F		Ilex verticillata 'Winter Red'	Winterberry	#3	CONT
10	IV-M		Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT
256	J		Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT
276	MP		Myrica pennsylvanica	Bayberry	#5	CONT
265	RR		Rosa rugosa 'Alba'	Beach Rose	#3	CONT
91	VC		Vaccinium corymbosum	Highbush Blueberry	#3	CONT
38	VD		Viburnum dentatum	Arrowwood viburnum	#5	CONT
Street Tree Underplanting						
636	IG-C		Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT
693	J		Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT
603	RR		Rosa rugosa 'Alba'	Beach Rose	#3	CONT
Trees						
Street Trees						
14	AR		Acer rubrum 'October Glory'	Red Maple	4" cal.	B&B
15	QR		Quercus borealis 'Rubra'	Red Oak	4" cal.	B&B
12	SJ		Sophora japonica 'Regent'	Japanese Pagodtree	4" cal.	B&B
35	TT		Tilia tomentosa 'Sterling Silver'	Silver Linden	4" cal.	B&B
13	UP		Ulmus parvifolia 'Allee'	Chinese Elm	4" cal.	B&B
Park & Biomedian Trees						
24	AC-S		Amelanchier canadensis	Shadblow - Small	5-6' clump	B&B
24	AC-M		Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B
3	AR-S		Acer rubrum	Red Maple - Small	2" cal.	B&B
4	AR-M		Acer rubrum	Red Maple - Medium	3" cal.	B&B
20	BN-S		Betula nigra	River Birch - Small	6-8' 50% mix single / clump	B&B
31	BN-M		Betula nigra	River Birch - Medium	8-10' 50% mix single / clump	B&B
6	JV-S		Juniperus virginiana	Red Cedar - Small	6-7'	B&B
12	JV-M		Juniperus virginiana	Red Cedar - Medium	7-8'	B&B
14	NS-S		Nyssa sylvatica	Black Tupelo - Small	2" cal.	B&B
7	NS-M		Nyssa sylvatica	Black Tupelo - Medium	3" cal.	B&B
Perennials & Grasses						
87	C-AC		Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	CONT
74	EP		Eupatorium fistulosum	Joe Pye Weed	#2	CONT
156	EP		Echinacea purpurea 'White Swan'	Echinacea	#2	CONT
191	LS		Liatris scariosa	Tall Gayfeather	#2	CONT
407	SH		Sporobolus heterolepis	Prairie Dropseed	#2	CONT
162	SNA		Symphoricaricum novae-angliae	New England Aster	#2	CONT
421	SS		Schizachyrium scoparium	Little Bluestem	#2	CONT

General Planting Plan Notes

- Contractor shall begin maintenance immediately after planting and shall continue until final acceptance. Contractor shall be responsible for all means and methods of watering and maintenance.
- The Landscape contractor shall supply all plant materials in quantities sufficient to complete all plantings shown on this drawing. Clarify any discrepancies with the landscape architect prior to ordering plant material.
- All materials shall conform to the guidelines established by the American Association of Nurserymen.
- All plants shall bear the same relationship to finish grade as the original grades before digging.
- The landscape contractor shall guarantee all plant materials for one (1) full year from date of substantial completion.
- All plant materials are subject to the approval of the landscape architect at the nursery and at the site.
- All areas of the site which have been disturbed and not otherwise developed shall be loamed with a minimum depth of 6" of topsoil and seeded as specified.
- Landscape contractor is encouraged to provide the landscape architect with concerns and/or suggestions with regard to proposed plant material selection prior to placing a purchase order.
- All trees located adjacent to walks and drives shall have 6' of clear height to first branching.
- Contractor shall verify all tree removals with landscape architect prior to start of construction.
- Contractor shall obtain approval for proposed lawn seed mix prior to installation.
- No plant shall be put into the ground before rough grading has been finished and approved by the project landscape architect.
- All plants shall be balled and wrapped or container grown as specified. No container grown stock will be accepted if it is root bound.
- All root wrapping material made of synthetics or plastics shall be removed at the time of planting.
- With container grown stock, the container shall be removed and the container ball shall be cut through the surface in two vertical locations.
- The location of trees, shrubs and bedlines shall be staked for approval by the landscape architect prior to installation. The contractor shall notify the landscape architect 48 hours prior to required site visit.
- All broad leaf evergreen plants shall be sprayed with an antidesiccant at the beginning of their first winter.
- All plants shall be installed as per details and the contract specifications. The landscape contractor shall refer to the contract specifications for additional requirements.
- All plants and stakes shall be set plumb unless otherwise specified.
- The landscape contractor shall provide loam fill as per the contract specifications.
- All plants shall be watered thoroughly twice during the first 24-hour period after planting. All plants shall then be watered by the contractor, as necessary to insure health until final acceptance.
- The landscape contractor shall refer to the plant list and planting specifications for seasonal requirements and other restrictions related to the time of planting.



PLAN KEY

no.	revision	date	by
1		3/26/15	
2		5/8/15	

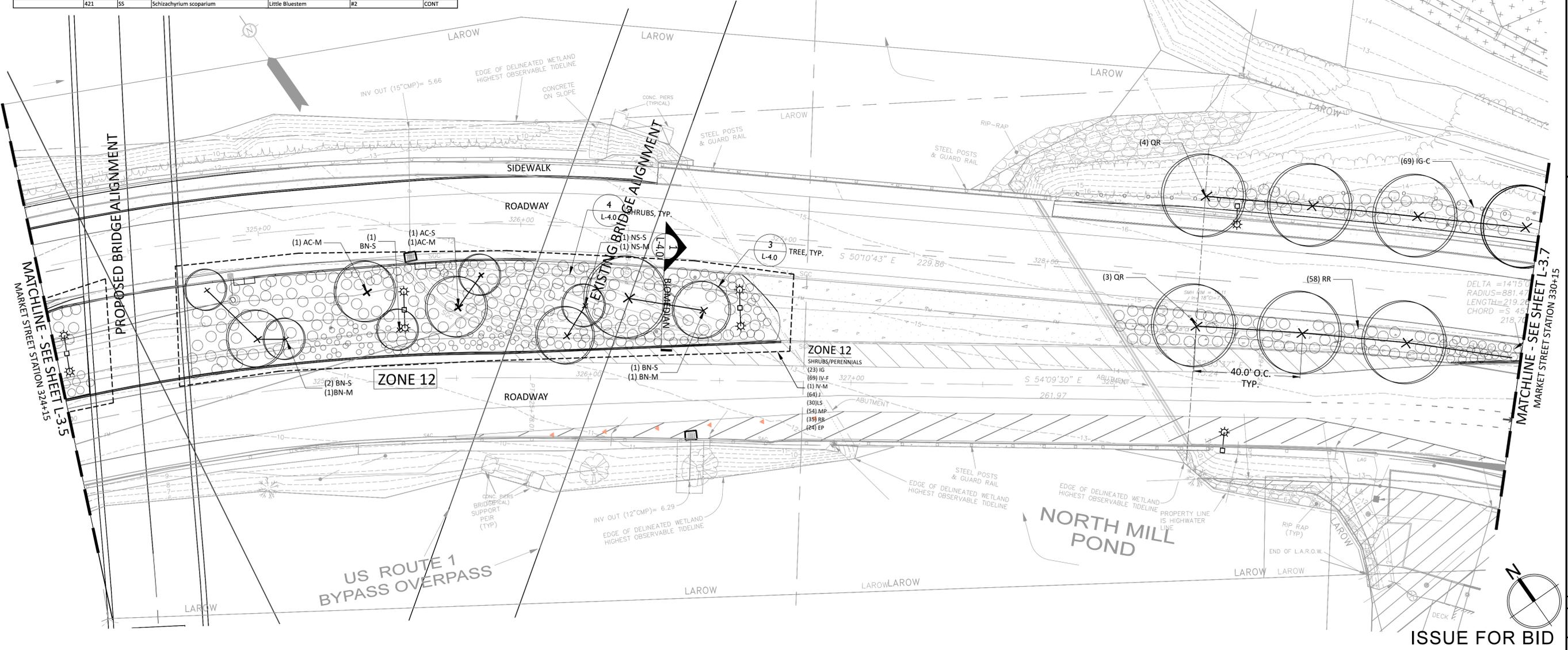
PROJECT No. 13121	DESIGNED BY:	CHECKED BY:	SCALE: 1"=20'
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING PLAN

DATE: 11/9/2015
DRAWING No. L-3.6



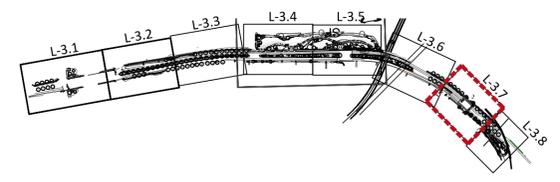
ISSUE FOR BID

OVERALL MARKET STREET CORRIDOR PLANTING SCHEDULE

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Meadow Mix	50,000 SF		"New England Coastal Salt-Tolerant Grass Mix" by New England Wetland Plants, Inc. (Or approved alternative)			
Groundcover	278	RA	Rhus aromatica 'Grow low'	Grow-low Fragrant Sumac	#3	CONT
Shrubs						
<i>Parks & Biomedian Shrubs</i>						
51	AM		Aronia melanocarpa	Black Chokeberry	#3	CONT
48	CA		Clethra alnifolia	Summersweet	#3	CONT
113	FG		Fothergilla gardenii	Dwarf Fothergilla	#3	CONT
35	FM-MA		Fothergilla major 'Mt. Airy'	Mount Airy Fothergilla	#3	CONT
15	FM		Fothergilla major	Large Fothergilla	#5	CONT
201	IG		Ilex glabra	Inkberry Holly	#3	CONT
178	IV-F		Ilex verticillata 'Winter Red'	Winterberry	#3	CONT
10	IV-M		Ilex verticillata 'Jim Dandy'	Winterberry	#3	CONT
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38	VD		Viburnum dentatum	Arrowwood viburnum	#5	CONT
<i>Street Tree Underplanting</i>						
636	IG-C		Ilex glabra 'Compacta'	Inkberry Holly	#3	CONT
693	J		Juniperus virginiana 'Grey Owl'	Juniper	#3	CONT
603	RR		Rosa rugosa 'Alba'	Beach Rose	#3	CONT
Trees						
<i>Street Trees</i>						
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24	AC-M		Amelanchier canadensis	Shadblow - Medium	8-10' clump	B&B
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191	LS		Liatis scariosa	Tall Gayfeather	#2	CONT
407	SH		Sporobolus heterolepis	Prairie Dropseed	#2	CONT
162	SNA		Symphoricarpon novae-angliae	New England Aster	#2	CONT
421	SS		Schizanthus scaparium	Little Bluestem	#2	CONT

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1		3/26/15	
2		5/8/15	

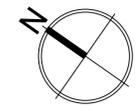
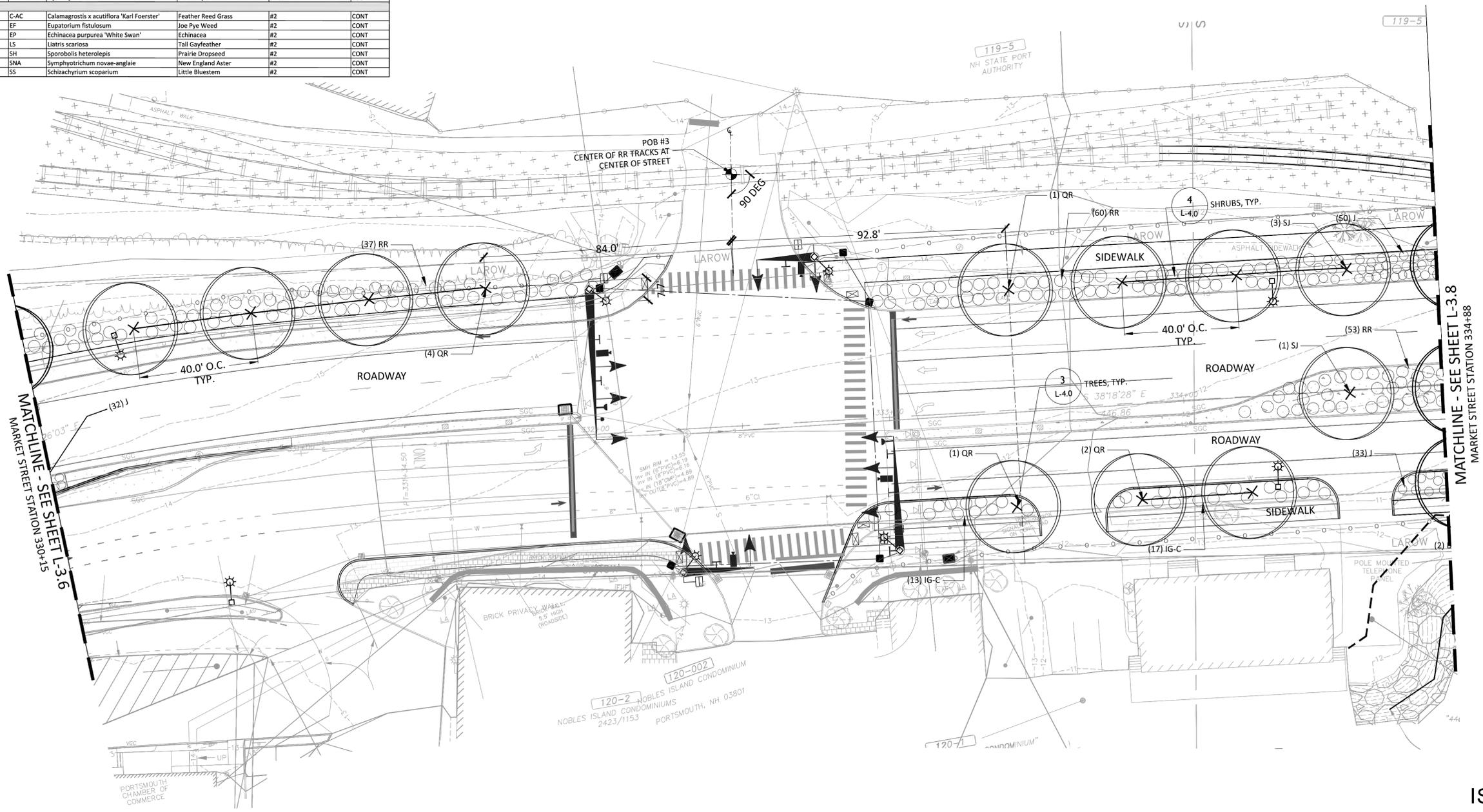
PROJECT No.	13121
DESIGNED BY:	
CHECKED BY:	
SCALE:	1"=20'

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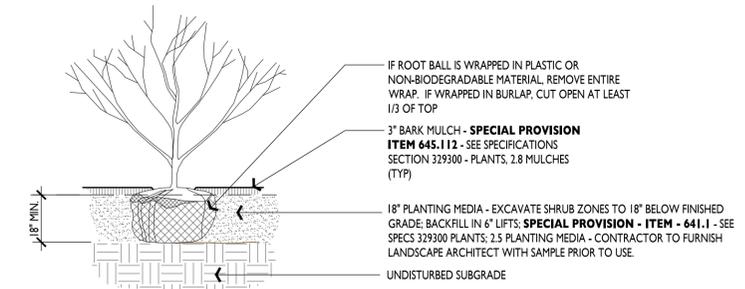
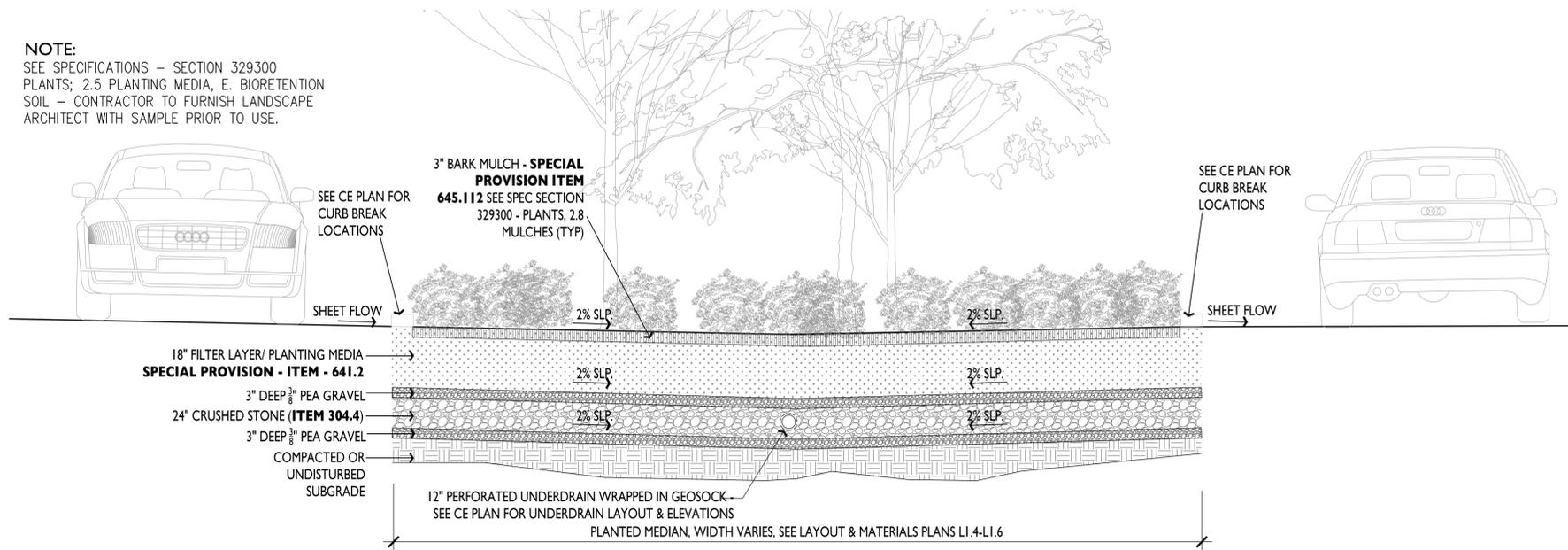
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING PLAN

DATE:	11/9/2015
DRAWING No.	L-3.7

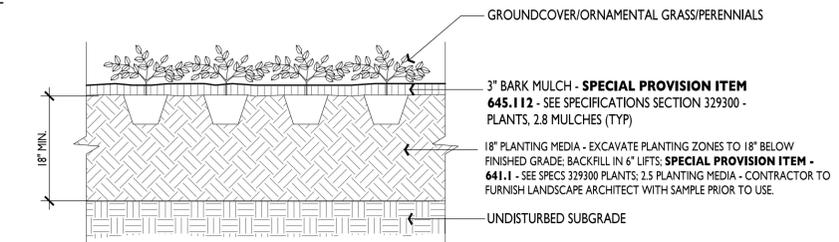


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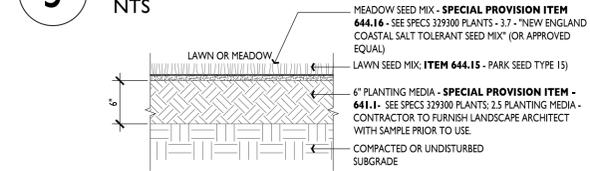
NOTE:
SEE SPECIFICATIONS - SECTION 329300 PLANTS; 2.5 PLANTING MEDIA, E. BIORETENTION SOIL - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.



4 SHRUB PLANTING
NTS



5 GROUND COVER/ORNAMENTAL GRASS/PERENNIAL PLANTING
NTS

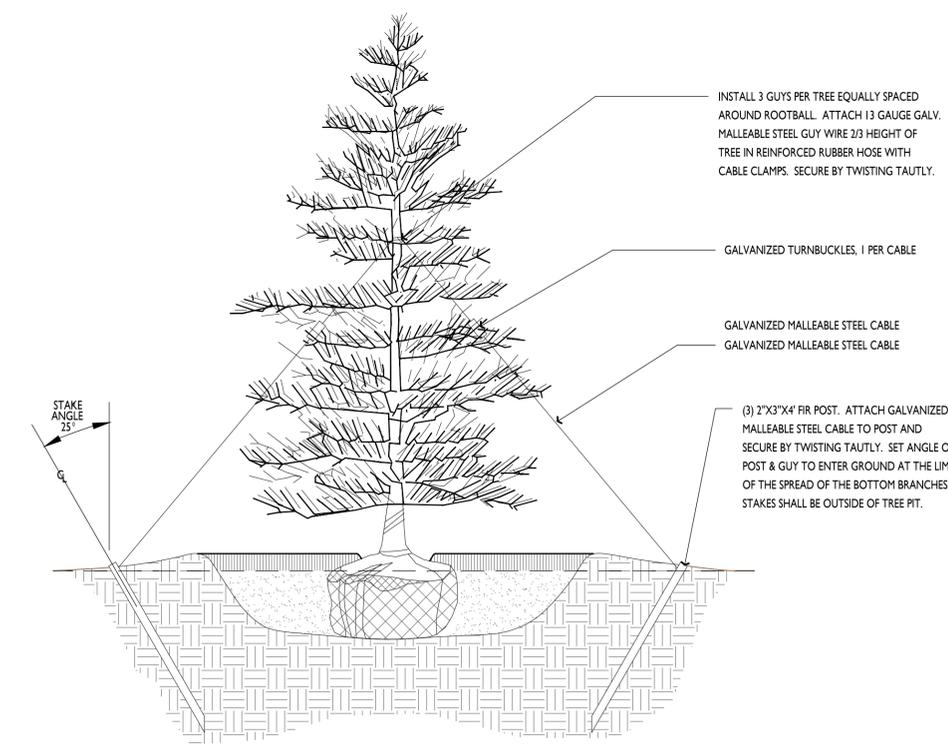


6 LAWN OR MEADOW PLANTING
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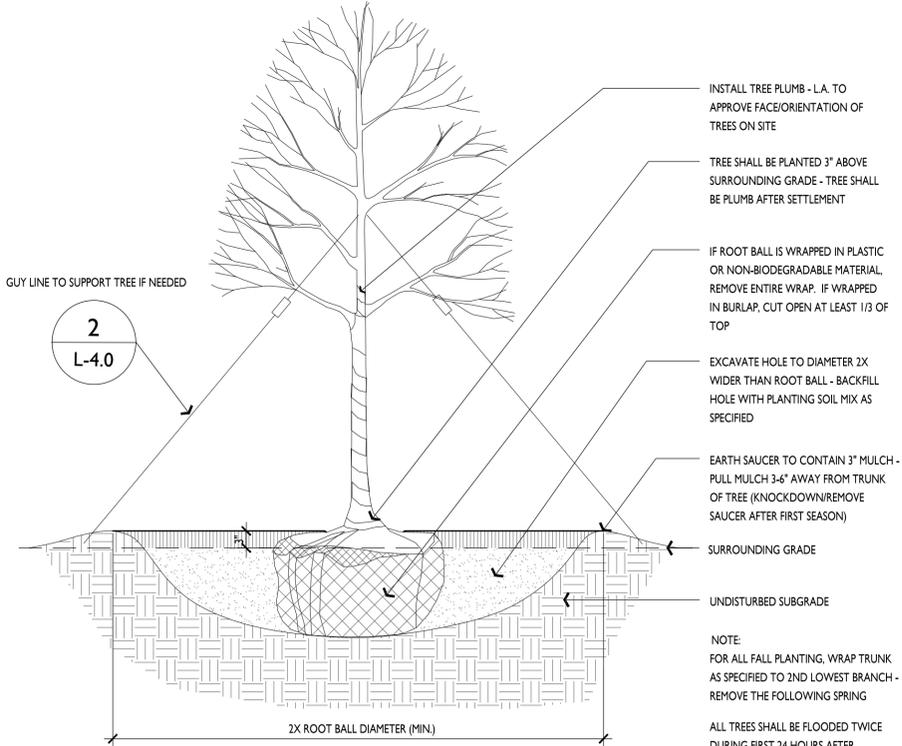
1 BIOMEDIAN/STORMWATER DETENTION
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PLANTING MEDIA SCHEDULE

LOCATION	DEPTH	DESCRIPTION
LAWNS/MEADOW	6"	SPECIAL PROVISION - ITEM - 641.1 - SEE SPECS 329300 PLANTS; 2.5 PLANTING MEDIA - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.
PLANTING BEDS (SHRUBS, ORNAMENTAL GRASSES, PERENNIALS)	18"	SPECIAL PROVISION - ITEM - 641.1 - SEE SPECS 329300 PLANTS; 2.5 PLANTING MEDIA - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.
BIOMEDIAN	18"	SEE DETAIL 1/L4.0 and SEE SPECS 329300 PLANTS; 2.5 PLANTING MEDIA; E. BIORETENTION SOIL - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.
TREE PITS	ROOT BALL DEPTH	SPECIAL PROVISION - ITEM - 641.1 - SEE SPECS 329300 PLANTS; 2.5 PLANTING MEDIA - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.



2 GUY LINE TREE SUPPORT
NTS



3 TREE PLANTING
NTS

no.	revision	revision	date	by

PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: AS NOTED
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PLANTING DETAILS

DATE: 11/9/2015
DRAWING No. L-4.0

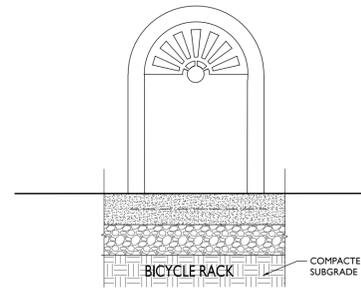
ISSUE FOR BID

SITE FURNISHING & LIGHTING SCHEDULE

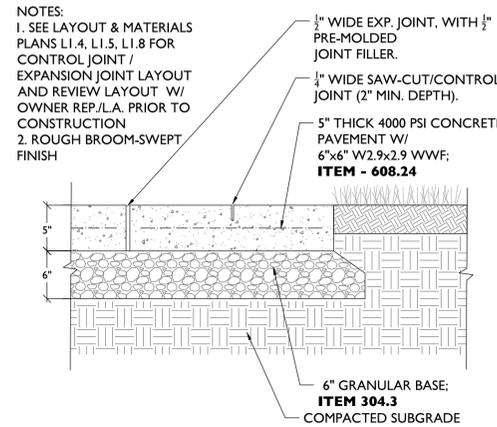
ITEM	LOCATION	QUANTITY	NOTES	IMAGE
PARK BENCH	RIVERFRONT & MILL POND PARKS - ALONG PATHWAYS	(14) RIVERFRONT PARK (3) MILL POND PARK	PORTSMOUTH CITY STANDARD	SEE DETAIL 2 (THIS PAGE)
TRASH RECEPTACLE	RIVERFRONT & MILL POND PARKS - ENTRANCES	(1) RIVERFRONT PARK (1) MILL POND PARK	PORTSMOUTH CITY STANDARD	SEE DETAIL 3 (THIS PAGE)
SIGN UPLIGHT	RIVERFRONT & MILL POND PARKS - ENTRANCE SIGN UPLIGHTING	(2) RIVERFRONT PARK (1) MILL POND PARK	HUNZA LIGHTING FLUSH MOUNT UPLIGHT	SEE DETAIL 7 (THIS PAGE)
BOLLARD LIGHT	RIVERFRONT & MILL POND PARKS - ALONG PATHWAYS	(23) RIVERFRONT PARK (4) MILL POND PARK	STRESSCRETE BOLLARD LIGHT SILOUETTE	SEE DETAIL 8 (THIS PAGE)
BICYCLE RACK	RIVERFRONT & MILL POND PARKS - ENTRANCES	(5 LOOPS) RIVERFRONT PARK (3 LOOPS) MILL POND PARK	PORTSMOUTH CITY STANDARD	SEE DETAIL 1 (THIS PAGE)
STREET LIGHTS	MARKET STREET CORRIDOR - SEE CIVIL DRAWINGS FOR LAYOUT	(26) SINGLES (11) DOUBLES	KING LUMINAIRE	SEE 9/L5.0 FOR SCHEDULE (THIS PAGE)

General Layout/Staking Notes

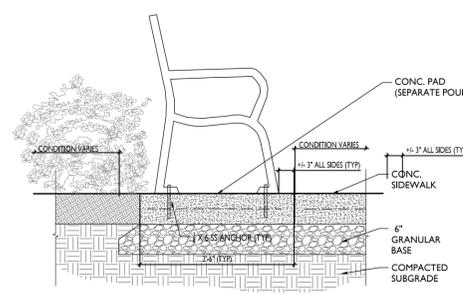
- Points of Beginning (POB) for construction layout are indicated on drawings.
- All written dimensions shall prevail; do not scale from drawings.
- Distances shown on site plans are horizontal distances.
- All curves shall be true radii without straight segments.
- Contractor shall field verify all dimensions and field verify location of existing plants and utilities as necessary. Any discrepancies shall be reported immediately to the landscape architect.
- Layout staking shall be approved by landscape architect prior to construction. The contractor shall notify the landscape architect 48 hours prior to required site visit.
- See construction details for dimensions and exact positioning of site elements and accessories.
- All dimensions and angles are 90° unless otherwise noted.
- Changes in the layout may be made by landscape architect to accommodate design intent or field conditions. No additional payment will be made to contractor for this work.
- Benches, litter receptacles, and bicycle racks shall be Portsmouth city standard furnishings.
- Litter receptacle and bicycle rack layout shown is approximate. Refer to sheet L-5.0 for exact layout. Final layout shall be approved in the field by landscape architect.
- Park sign layout shown is approximate. Refer to sheet L-6.0 for exact layout. Final layout shall be approved in the field by landscape architect.



1 BICYCLE RACK - CITY STANDARD
NTS



6 CONCRETE WALK
SCALE 1" = 1'

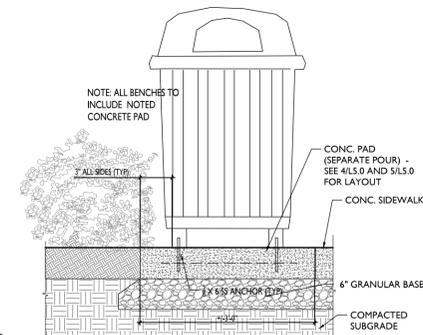
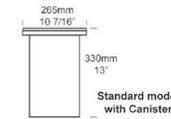


2 PARK BENCH - CITY STANDARD
NTS

MANUF. INFO:
HUNZA LIGHTING
Distributed by:
Rick Weeks
CWA Lighting Group, LLC
156 Ledge Hill Road
Center Tuftonboro, NH 03816
603-515-7007
www.cwagroup.net
rickweeks@cwagroup.net

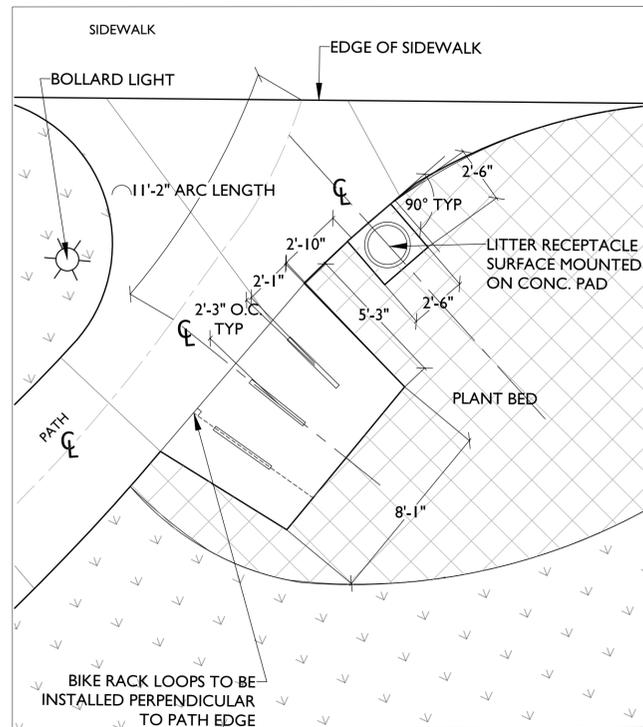
CATALOG #:
ST150/U/CAN-R-S/22-3-ST150HCR-ST150FL-SBZ
NOTES:
1. TO BE CONTROLLED BY PHOTO CONTROL SUPPLIED BY ELECTRICAL CONTRACTOR
2. CANISTER TO BE SET IN PLACE AND SUFFICIENTLY SURROUNDED W/ CONC.; PROVIDE CRUSHED STONE AT BOTTOM FOR WIRING AND DRAINAGE

SafeTouch™ 150
ULTRA
Cat. No. ST150/U/CAN
Cat. No. ST150/U/DB

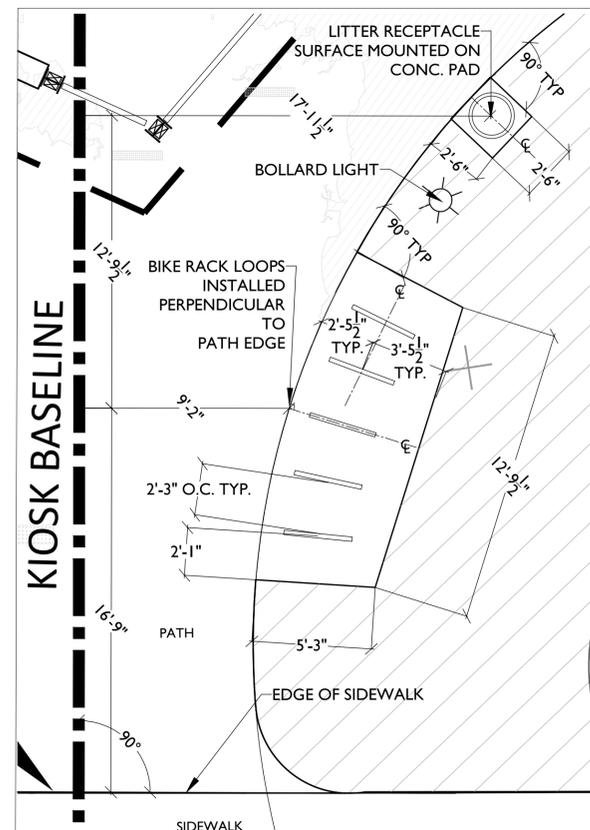


3 TRASH RECEPTACLE - CITY STANDARD
NTS

SAFERTOUCHE 150 ULTRA - FLUSH MOUNT FIXTURE
SPECIAL PROVISION - ITEM - 665.15

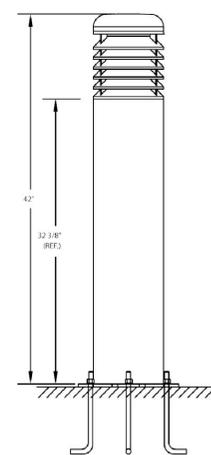


4 BIKE RACK & TRASH RECEPTACLE LAYOUT
SCALE 1/4" = 1' NORTH MILL POND PARK



5 BIKE RACK & TRASH RECEPTACLE LAYOUT
SCALE 1/4" = 1' RIVERFRONT PARK

7 SIGN UPLIGHT
SCALE: NTS



8 BOLLARD LIGHT
SCALE: NTS

BOLLARD BASE
Per manufacturer specs: The base casting shall have 8 3/4 inch bolt circle and complete with 3 anchor bolts, 1/2 inch x 10 inch, 55 PSI minimum yield strength galvanized to ASTM A-153, with a threaded end, 2 over-sized washers and 2 hex nuts for double nutting.

BOLLARD LIGHT
"SILHOUETTE BOLLARD"
SPECIAL PROVISION - ITEM - 665.14

MANUF. INFO:
STRESSCRETE GROUP
KING LUMINAIRE -
DISTRIBUTED BY -
SPEC-LINES
Peter Beane
8 Genuine Drive
Sandown, NH 03873
Ph: 800-974-6031 ext. 105
Fax: 888-831-5273
Peter@speclines.net
www.speclines.net

CATALOG #:
KL-A-OAAF-V-36-SSL-120-BK
COLOR:CHICAGO BRONZE

9 STREET LIGHT SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
A	A	26	K833-FAFL-III-150(SSL)8090-EE4	KING LUMINAIRE K833 LUMINAIRE WITH PHASE III OPTICS	90 CREE XPG2 EE4 WHITE LEDS, LUMEN OUTPUT = 12576 LMS.	H075C.IES	Absolute	0.81	157.01
B	B	11	K833-FAFL-III-150(SSL)8090-EE4	KING LUMINAIRE K833 LUMINAIRE WITH PHASE III OPTICS	90 CREE XPG2 EE4 WHITE LEDS, LUMEN OUTPUT = 12576 LMS.	H075C.IES	Absolute	0.81	314.02

SPECIAL PROVISION - ITEM - 665.13

- See specifications for decorative Belmont style concrete pole, K829 Aurora Sr. LED pendant, and KA72-T Single & Double Top Mounted Arm C/W Finish
- See 8/L5.0 for Manuf. info and contact.

no.	revision	date	by

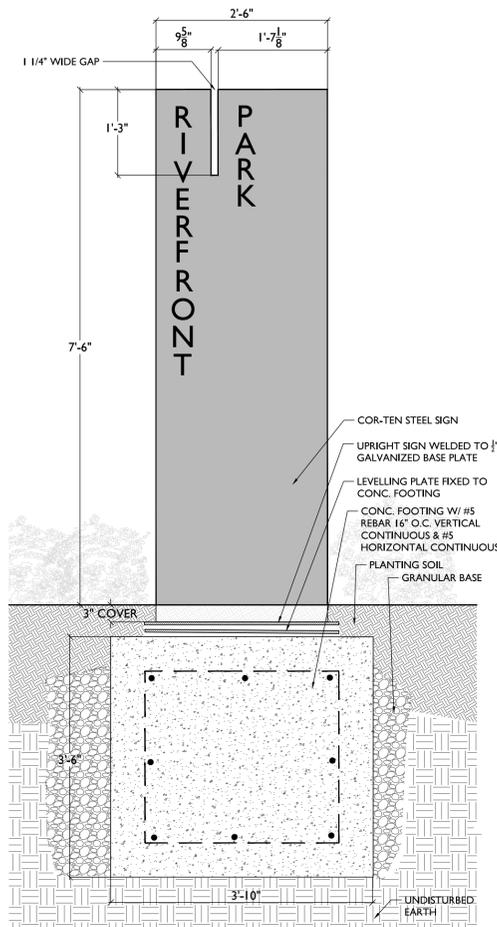
PROJECT No. 13121	DESIGNED BY ...	CHECKED BY ...	SCALE: AS NOTED
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888.776.8885

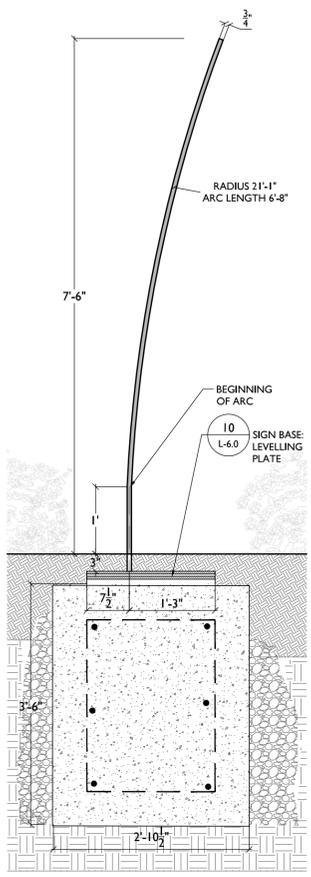
Richardson & Associates
Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
SITE DETAILS

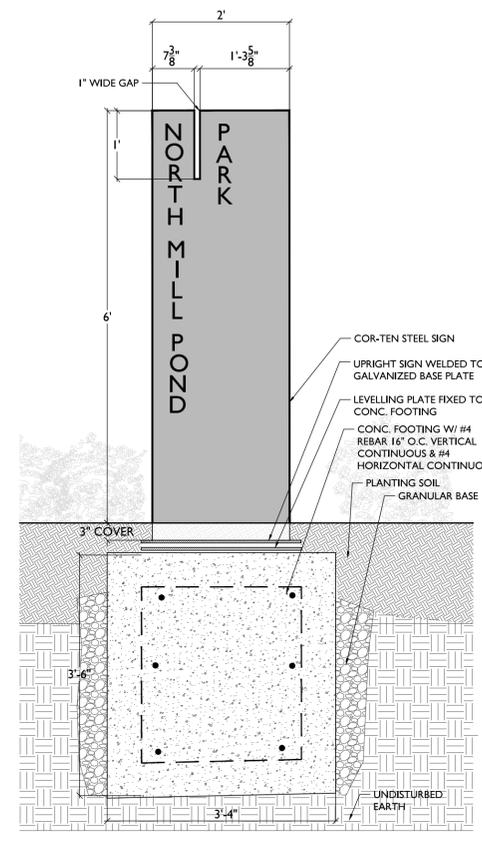
DATE: 11/9/2015
DRAWING No. L-5.0



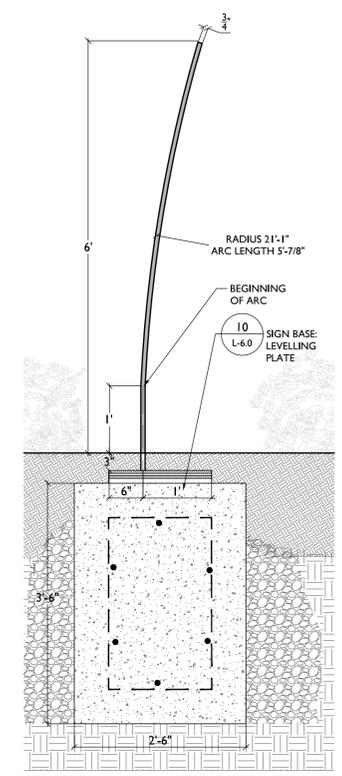
1 PARK SIGN A -- SEC 1
3/4" = 1'



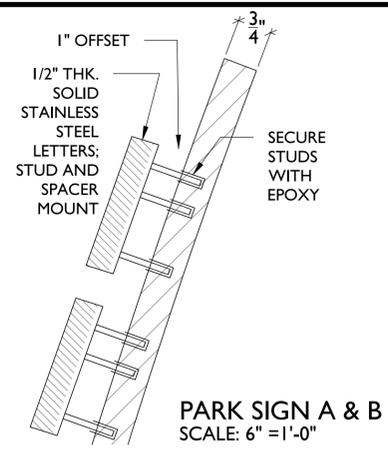
2 PARK SIGN A -- SEC 2
3/4" = 1'



3 PARK SIGN B -- SEC 1
3/4" = 1'



4 PARK SIGN B -- SEC 2
3/4" = 1'

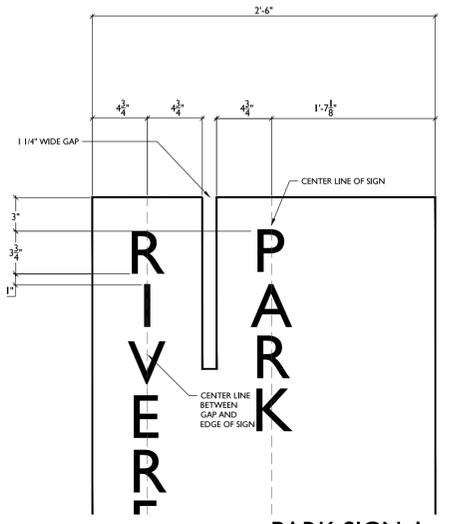


5 PARK SIGN A & B
SCALE: 6" = 1'-0"

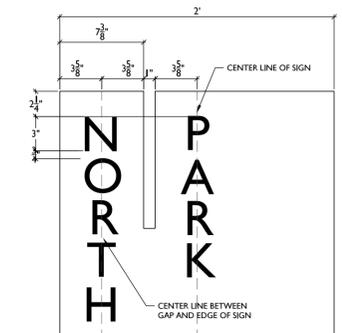
COR-TEN PARK SIGN NOTES
 1. CONTRACTOR TO PROVIDE SIGN SHOP DRAWINGS FOR L.A./CITY APPROVAL PRIOR TO CONSTRUCTION.
 2. LETTERS TO BE 1/2" THK. STAINLESS STEEL BRUSHED FINISH C304, HELVETICA FONT, 4" HT, STUD AND SPACER MOUNT, STUD LENGTH 2", SPACER/STAND OFF 1" BY "IMPACT SIGNS" OR APPROVED EQUAL.

COR-TEN PARK SIGN SCHEDULE:

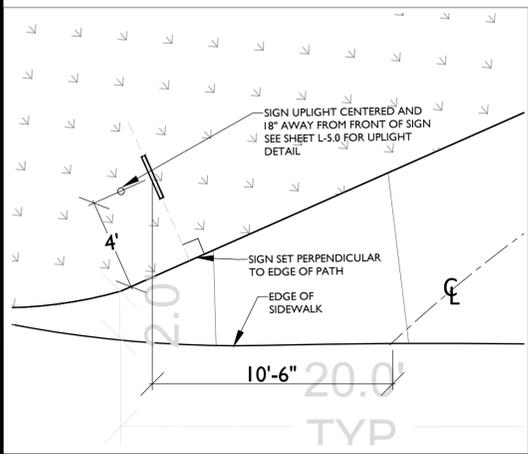
TYPE	DESCRIPTION	LOCATION	QTY.
A	RIVERFRONT PARK	WEST ENTRANCE	1
A	RIVERFRONT PARK	EAST ENTRANCE	1
B	NORTH MILL POND PARK	WEST ENTRANCE	1



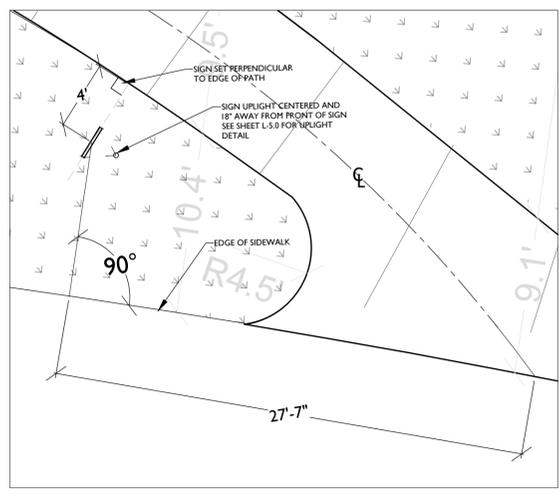
5 PARK SIGN A
SCALE: 1 1/2" = 1'-0"



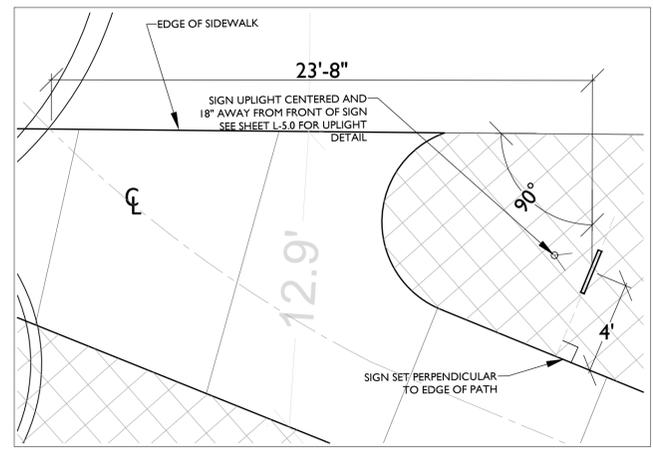
5 PARK SIGN B
SCALE: 1 1/2" = 1'-0"



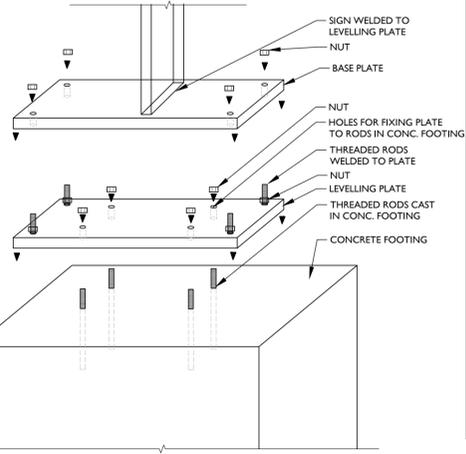
6 PARK SIGN -- LAYOUT DETAIL
1/4" = 1' RIVERFRONT PARK, WEST ENTRANCE



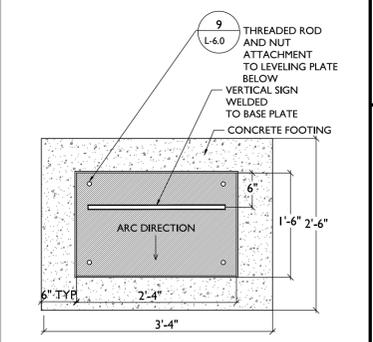
7 PARK SIGN -- LAYOUT DETAIL
3/16" = 1' RIVERFRONT PARK, EAST ENTRANCE



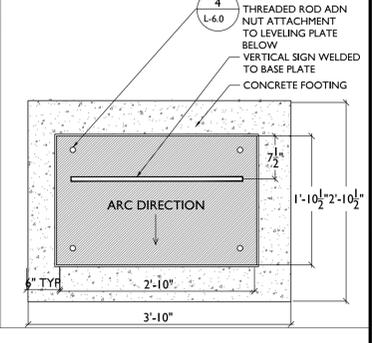
8 PARK SIGN -- LAYOUT DETAIL
1/4" = 1' NORTH MILL POND PARK



9 PARK SIGN -- LEVELLING PLATE
NOT TO SCALE



10 PARK SIGN B
SCALE: 3/4" = 1'-0"



10 PARK SIGN A
SCALE: 3/4" = 1'-0"

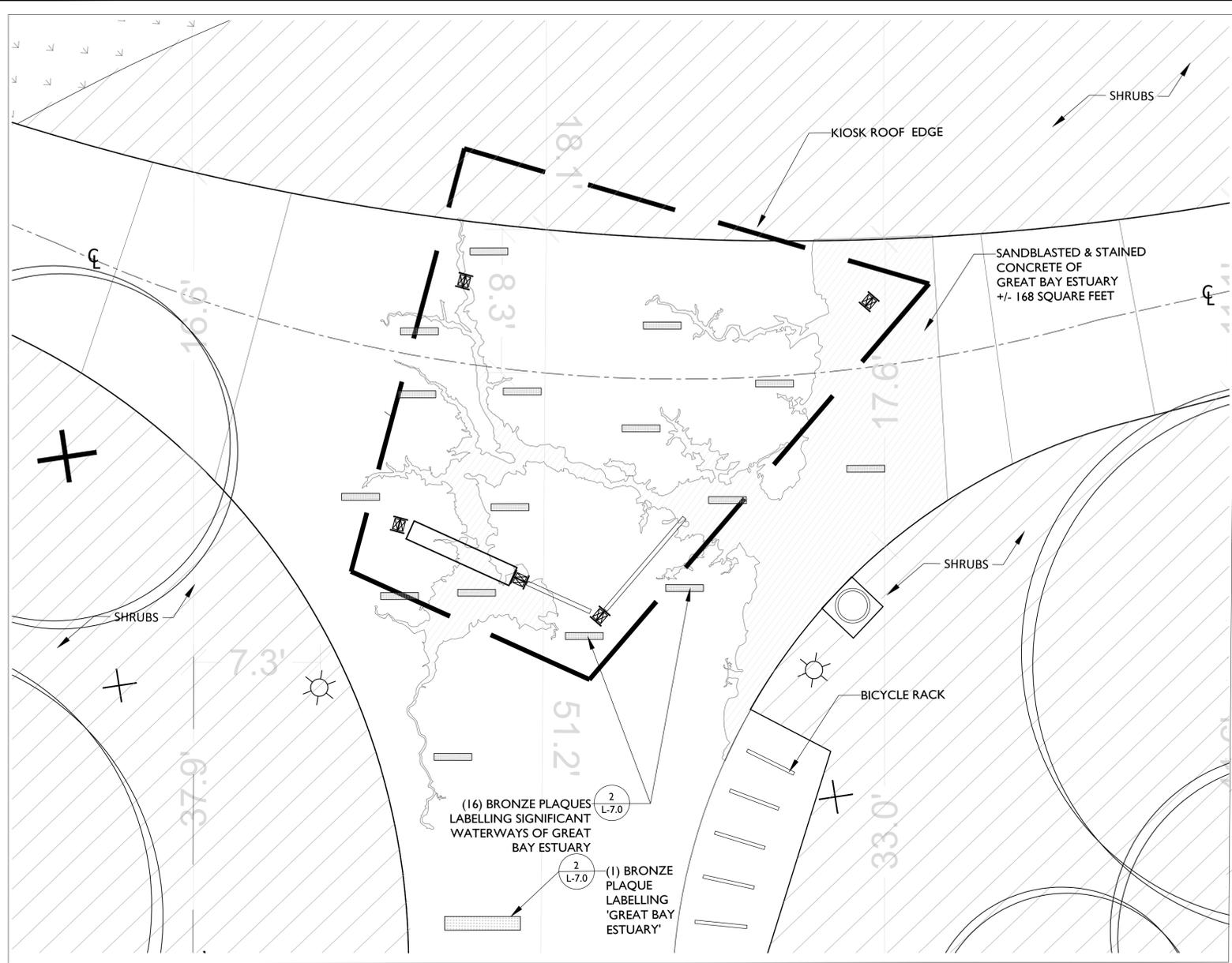
no.	revision	revision	date	by

PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: AS NOTED
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
PARK SIGNS SECTIONS & DETAILS

DATE: 11/9/2015
 DRAWING No. L-6.0



BRONZE PLAQUE NOTES:

1. PLAQUES TO BE CAST BRONZE, SAND FINISH SURFACE WITH SUNKEN LETTERING, NO RAISED BORDER
2. FONT AND LETTER SIZE APPROXIMATE; EXACT DIMENSIONS TBD
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR L.A. APPROVAL PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO FABRICATE ONE FULL SCALE BRONZE PLAQUE FOR L.A. /CITY APPROVAL PRIOR TO FINAL FABRICATION.
5. CONTRACTOR TO LAYOUT BRONZE PLAQUES IN FIELD, BASED ON L.A. PROVIDED DIGITAL CAD LINWORK, FOR L.A./CITY REVIEW AND APPROVAL PRIOR TO FABRICATION.

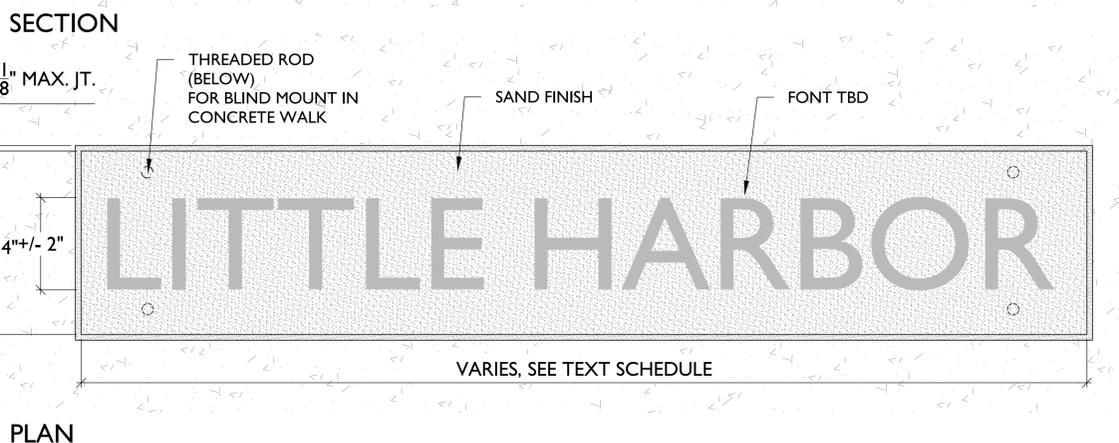
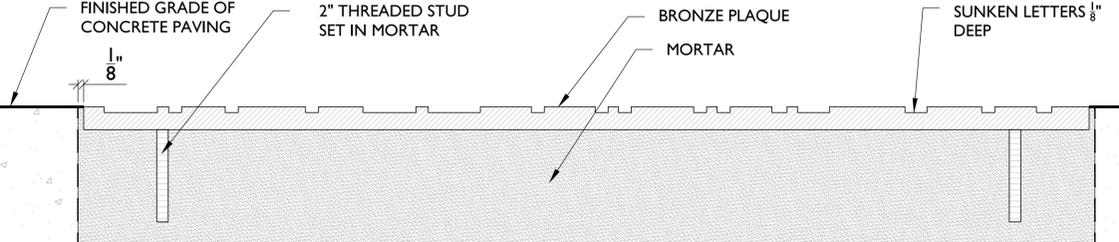
BRONZE PLAQUE TEXT SCHEDULE

OVERALL NAME
GREAT BAY ESTUARY
NOTE: SIZE 2X AS SHOWN IN DETAIL 2/L7.0

NAMES OF SIGNIFICANT WATERWAYS
SQUAMSCOTT RIVER
LAMPREY RIVER
GREAT BAY
WINNICUT RIVER
LITTLE BAY
OYSTER RIVER
BELLAMY RIVER
COCHECO RIVER
SALMON FALLS RIVER
PISCATAQUA RIVER
SAGAMORE CREEK
SPINNEY CREEK
SPRUCE CREEK
PORTSMOUTH HARBOR
LITTLE HARBOR
GULF OF MAINE

CONCRETE SANDBLASTING/STAINING NOTES:

1. CONTRACTOR TO PROVIDE 5'X5' SANDBLASTED AND STAINED MOCK UP FOR L.A./CITY REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO PROVIDE 'SANDBLASTING TEMPLATES' SHOP DRAWINGS, BASED ON L.A. PROVIDED DIGITAL CAD LINWORK OF GREAT BAY ESTUARY MAP, FOR L.A. APPROVAL PRIOR TO CONSTRUCTION.
3. CONCRETE TO BE SANDBLASTED TO A DEPTH OF APPROXIMATELY 1/8"
4. SANDBLASTED CONCRETE TO BE STAINED WITH INDUSTRY APPROVED CONCRETE STAIN AND L.A. APPROVED COLOR.



1 INTERPRETIVE ESTUARY MAP ENGRAVING & BRONZE PLAQUES
SCALE 1:50

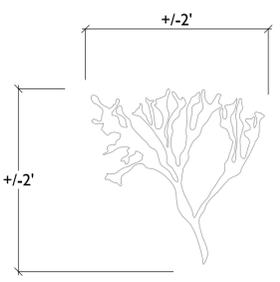
2 BRONZE PLAQUE
SCALE 6" = 1'



PRECEDENT IMAGE

INTERPRETIVE CONCRETE SANDBLASTING NOTES:

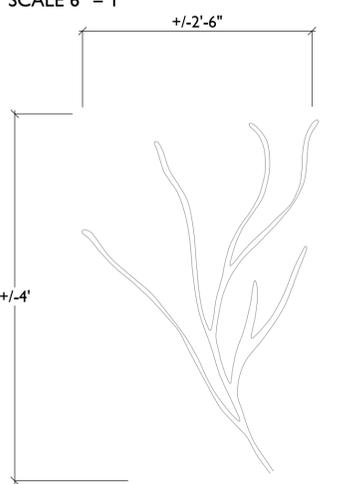
1. LAYOUT OF AQUATIC FLORA STENCILS ON CONCRETE PATHS AT RIVERFRONT AND NORTH MILL POND PARKS TO BE REVIEWED IN FIELD BY OWNER'S REP/L.A. - SEE L1.4, L1.5, and L1.8 FOR LAYOUT ZONES
2. (80) OF EACH FLORA for a total of (240) TO BE SANDBLASTED TO A DEPTH OF 1/8" MAXIMUM.
3. CONTRACTOR TO PROVIDE FULL SCALE SANDBLASTED MOCK UP OF THREE NOTED AQUATIC FLORA FOR L.A. /OWNER'S REP REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO PROVIDE 'SANDBLASTING TEMPLATES' SHOP DRAWINGS, BASED ON L.A. PROVIDED DIGITAL CAD LINWORK OF NOTED FLORA, FOR L.A. APPROVAL PRIOR TO CONSTRUCTION.



A
ROCK WEED (FUCUS VESICULOSUS)



B
CORD GRASS (SPARTINA PATENS)



C
EEL GRASS (ZOSTERA MARINA)

NOTE: FLORA AS SHOWN ARE REPRESENTATIVE IN SIZE AND CHARACTER OF THE SHAPES TO BE TEMPLATED FOR SANDBLASTING.

L.A. TO PROVIDE CONTRACTOR A DIGITAL CAD FILE WITH A MINIMUM OF (3) VARIATIONS OF EACH SHAPE GENERALLY THE SAME SIZE FOR A TOTAL OF (9) TEMPLATES.

3 INTERPRETIVE CONCRETE SANDBLASTING - PLAN DETAIL
SCALE: 1" = 1'-0"

no.	revision	date	by

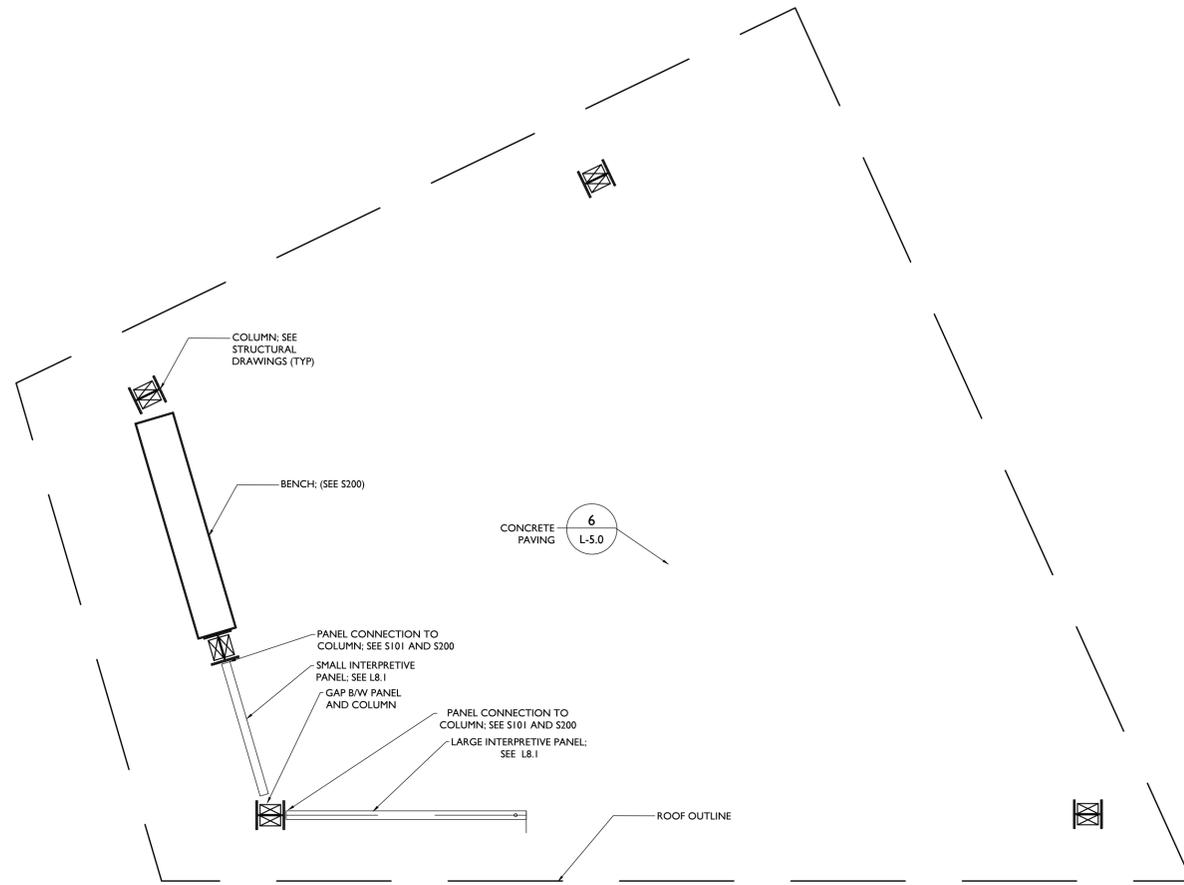
PROJECT No. 13121	DESIGNED BY ...	CHECKED BY ...	SCALE AS NOTED
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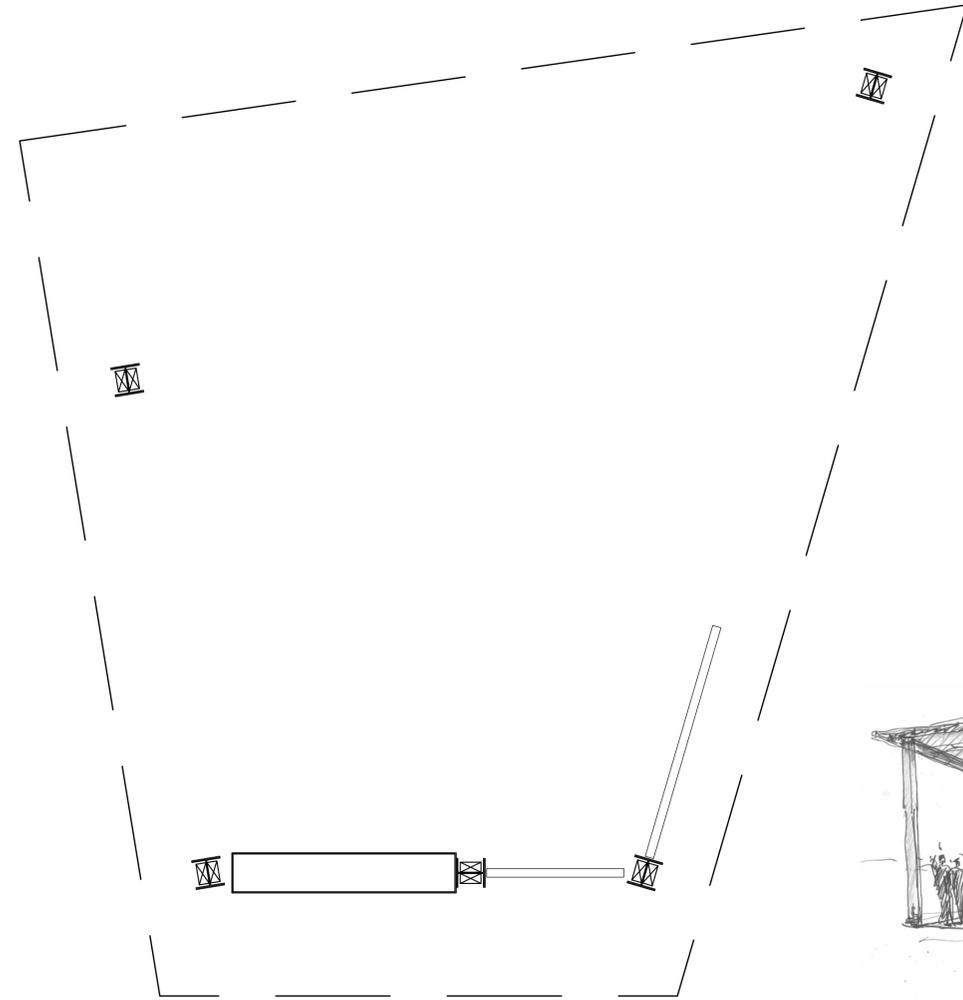
Richardson & Associates
Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CONC. ENGRAVING PLAN & DETAILS

DATE: 11/9/2015
DRAWING No. L-7.0



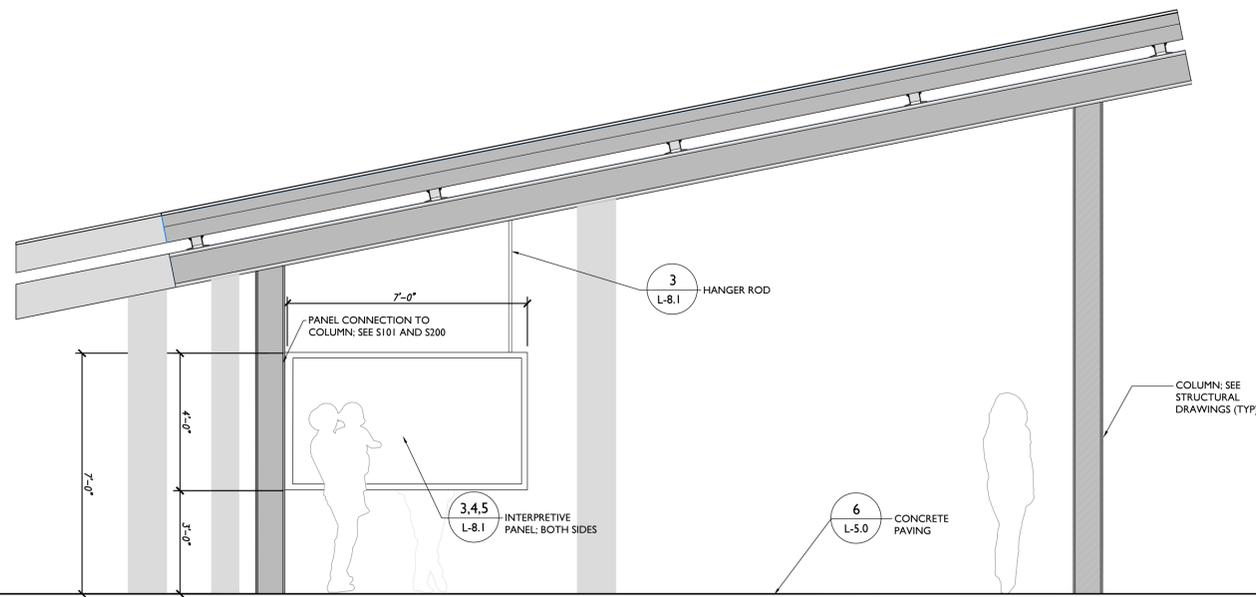
1 PLAN
SCALE: 3/8" = 1'-0"



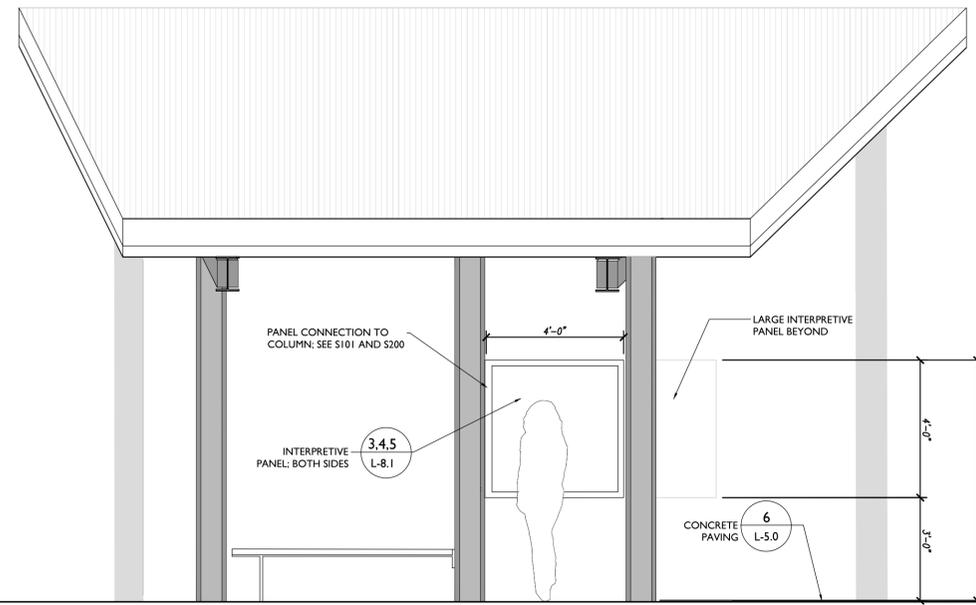
3 PLAN
SCALE: 3/8" = 1'-0"



KIOSK CONCEPT SKETCH



2 ELEVATION
SCALE: 3/8" = 1'-0"



4 ELEVATION
SCALE: 3/8" = 1'-0"

no.	revision	revision	date	by

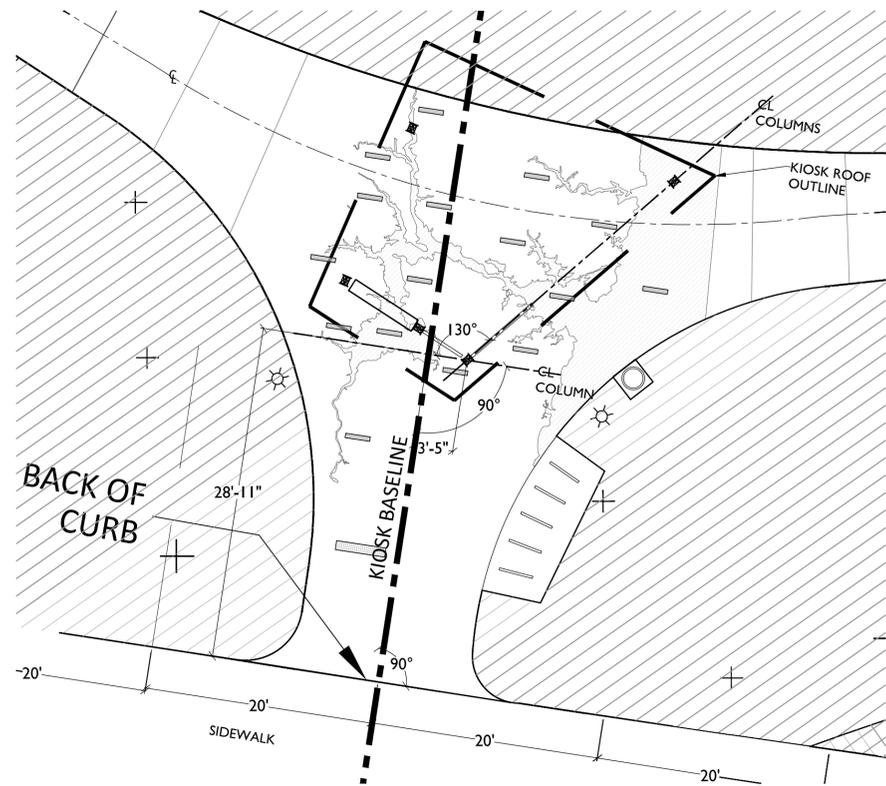
PROJECT No. 13121	DESIGNED BY ...	CHECKED BY ...	SCALE: AS NOTED
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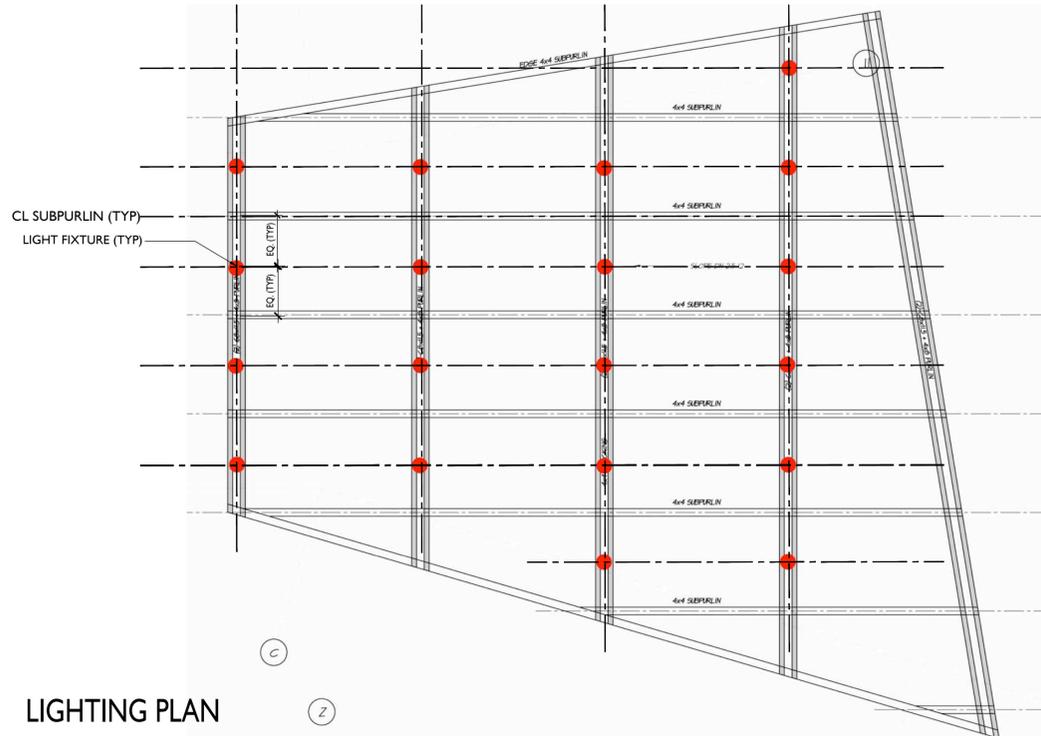
CITY OF PORTSMOUTH, NH
 MARKET STREET GATEWAY
 KIOSK PLAN & ELEVATIONS

DATE: 10/9/2015
DRAWING No. L-8.0

ISSUE FOR BID



1 KIOSK - LAYOUT PLAN
SCALE: 1/8" = 1'-0"



LIGHTING PLAN

LIGHTING SCHEDULE

SPOT FIXTURE
Material/Finish: Copper

MANUF. INFO:
Hunza
Distributed by:
Rick Weeks
CWA Lighting Group, LLC
156 Ledge Hill Road
Center Tuftonboro, NH 03816
603-515-7007
www.cwagroup.net
rickweeks@cwagroup.net

CATALOG #: EWS/L-D3-38-3-COP

QUANTITY: 19

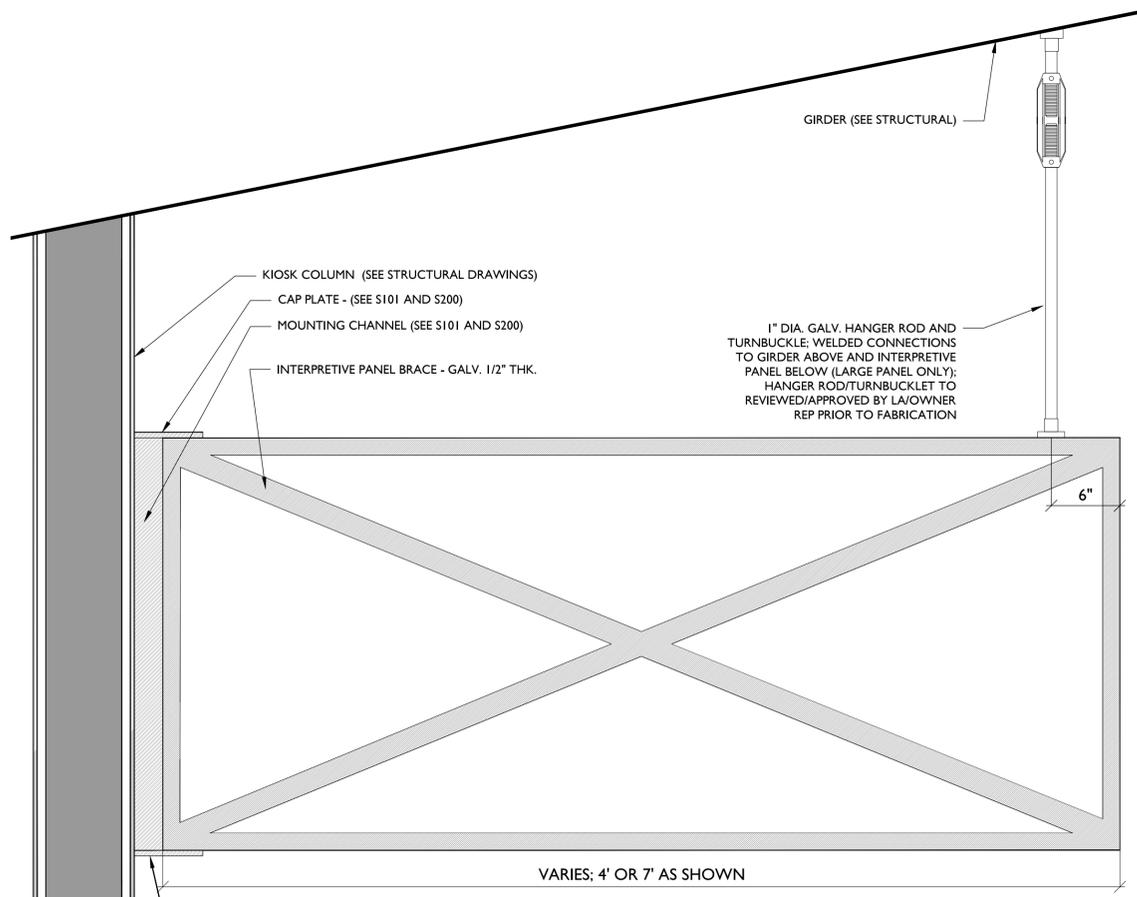
Remote transformer: Q-Tran QOM series

SPECIAL PROVISION - ITEM - 665.16

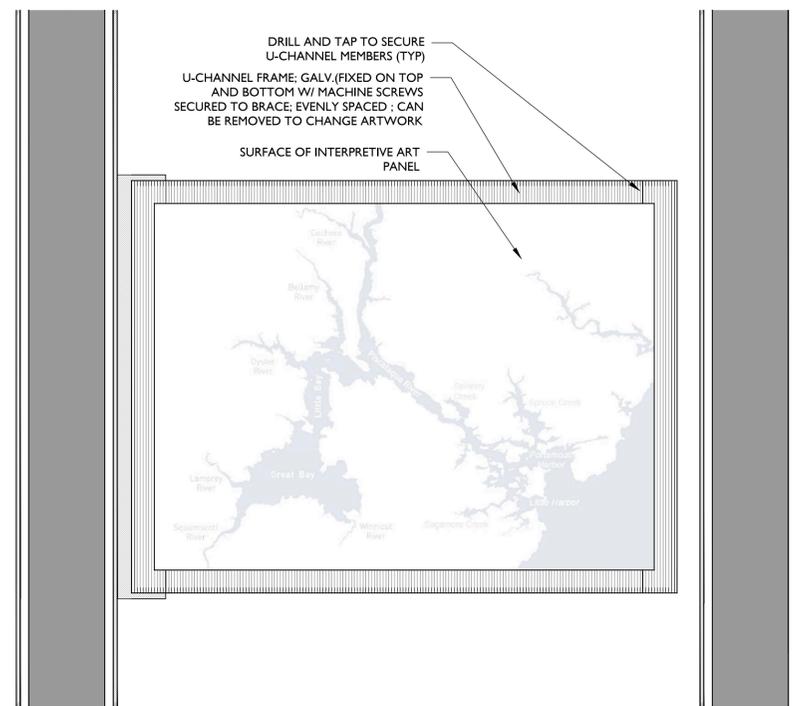
LIGHTING NOTES

1. This plan is for layout of kiosk spot light fixtures only.
2. Conceal conduit above 4x8 purlins (see Structural S202); Acceptable to expose conduit at centerline along 4x4 subpurlin - vertical conduit to be located at column 20Z. All means, methods and location of exposed conduit to be reviewed with L.A./owner's rep prior to installation
3. The contractor shall be responsible for coordinating all construction activities related to this lighting layout.
4. The contractor shall be responsible for electrical wiring that meets all State of NH and other local codes having jurisdiction.
5. Source of power shall be determined by owner. Contractor shall be responsible for coordination of electrical connection and wiring to the source with owner prior to construction and prior to ordering materials.
6. Pricing by contractor shall include all fixtures, wiring to power source, electrical connection, and other electrical materials required for operable lighting system.

2 KIOSK - LIGHTING PLAN & SCHEDULE
NTS



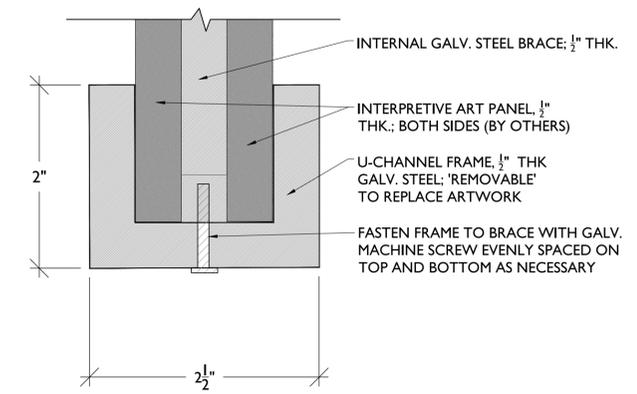
3 INTERPRETIVE PANEL - INTERNAL FRAME & CROSS-BRACING - ELEVATION
NTS



4 INTERPRETIVE PANEL - ELEVATION
NTS

INTERPRETIVE PANELS NOTES

1. CONTRACTOR TO PROVIDE STEEL SHOP DRAWINGS FOR L.A./CITY APPROVAL PRIOR TO FABRICATION.
2. ALL WELDS TO BE GROUND SMOOTH.
3. EXACT INTERPRETIVE ARTWORK SIZE TO BE DETERMINED FOLLOWING FABRICATION OF PANEL.
4. INTERPRETIVE ARTWORK PANEL TO BE GRAFFITI AND UV RESISTANT PER CITY SPECIFICATIONS.



5 INTERPRETIVE PANEL - SECTION
SCALE: FULL SCALE

PROJECT No.	13121
DESIGNED BY	...
CHECKED BY	...
SCALE	AS NOTED

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MARKET STREET GATEWAY
KIOSK DETAILS

DATE: 10/9/2015
DRAWING No. L-8.1

GENERAL NOTES

- CONSULT ALL PROJECT DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEFLECTIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL PHASES OF ERECTION AND CONSTRUCTION.
- DETAILS SHOWN AS "TYPICAL" APPLY TO ALL SIMILAR CONDITIONS.
- COORDINATION FOR THE PROPER INSTALLATION OF FINISHES, ELECTRICAL, MECHANICAL AND ALL OTHER NON-STRUCTURAL ELEMENTS IN THE BUILDING IS THE RESPONSIBILITY OF OTHERS.

STRUCTURAL DESIGN DATA:

- REFERENCE CODES:
INTERNATIONAL BUILDING CODE (2009)
ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS
- ROOF SNOW LOAD DATA:
GROUND SNOW LOAD (Pg): 50 PSF
FLAT ROOF SNOW LOAD (Pf): 42 PSF
EXPOSURE FACTOR (Ce): 1.0
IMPORTANCE FACTOR (I): 1.0
THERMAL FACTOR (Ct) = 1.2
- WIND DESIGN DATA:
BASIC WIND SPEED: 100 MPH (3-SECOND GUST)
IMPORTANCE FACTOR: 1.0
OCCUPANCY CATEGORY: II
EXPOSURE: C
COMPONENTS AND CLADDING: 60 PSF MAX.
- CLIMATIC AND GEOGRAPHIC DESIGN DATA:
ASSUMED NET ALLOWABLE SOIL BEARING FRESSURE: 2,000 PSF
FROST LINE DEPTH = 4'-6"
WEATHERING INDEX = SEVERE

LIST OF ABBREVIATIONS

AB	ANCHOR BOLT
ARCH	ARCHITECT
B/FTG	BOTTOM OF FOOTING
BCJ	I-JOIST
CJ	CONTROL JOINT
CL	CENTER LINE
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
D	DROPPED BEAM
DIA	DIAMETER
DWGS	DRAWINGS
EL	ELEVATION
EF	EACH FACE
EW	EACH WAY
EXIST	EXISTING CONDITION
FTG	CONCRETE FOOTING
HDR	HEADER
HSS	HOLLOW STRUCTURAL STEEL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MIN	MINIMUM
OC	ON CENTER SPACING
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PT	PRESERVATIVE TREATMENT
PSL	PARALLEL
REQD	REQUIRED
RO	ROUGH OPENING
T&B	TOP AND BOTTOM
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/WALL	TOP OF WALL
TYP	TYPICAL CONDITION
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WITH

SUBMITTALS

CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS, INCLUDING:
- CONCRETE REINFORCING SHOP BENDING AND FIELD PLACEMENT DRAWINGS
- STRUCTURAL STEEL ERECTION AND FABRICATION DRAWINGS

STRUCTURAL TESTS, INSPECTIONS AND QUALITY ASSURANCE:

- INDEPENDENT, THIRD-PARTY QUALITY ASSURANCE OF ALL STRUCTURAL WORK IS REQUIRED. THESE REQUIREMENTS ARE IN ADDITION TO ANY INSPECTIONS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION (BUILDING DEPARTMENT, BUILDING OFFICIAL, CODE ENFORCEMENT OFFICER, ETC).
- A PROGRAM OF STRUCTURAL TESTS AND INSPECTIONS WILL BE PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (STRUCTURAL ENGINEER OF RECORD). THE STATEMENT SHALL INCLUDE A LIST OF MATERIALS AND WORK REQUIRING STRUCTURAL TESTS AND INSPECTIONS, A DESCRIPTION OF THE SERVICES TO BE PERFORMED AND A LIST OF THE APPROVED AGENCIES TO CONDUCT SUCH SERVICES, INCLUDING:
STRUCTURAL FILL GRADATION AND COMPACTION
CONCRETE SLUMP, TEMPERATURE AND AIR CONTENT
CONCRETE GROUT AND MORTAR STRENGTH TESTS
CONCRETE AND MASONRY REINFORCING INSPECTION
STRUCTURAL STEEL INSPECTION
- ALL COSTS ASSOCIATED WITH IMPLEMENTING THIS PROGRAM SHALL BE BORNE BY THE OWNER. ADDITIONAL TESTS AND INSPECTIONS REQUIRED DUE TO POOR QUALITY OF MATERIALS AND/OR DUE TO CONSTRUCTION ERRORS SHALL BE REIMBURSED FROM THE GENERAL CONTRACTOR'S CONTRACT.
- THE TESTING AND INSPECTION PROGRAM SHALL BE IMPLEMENTED BY AN APPROVED AGENCY INDEPENDENT OF THE CONTRACTOR. THESE INSPECTORS MAY BE FROM THE ENGINEER'S STAFF OR FROM APPROVED OUTSIDE ENGINEERING, TESTING OR INSPECTION AGENCIES, WHOMEVER IS MOST BENEFICIAL FOR THE EXECUTION AND OPERATION OF THE PROGRAM.
- REPORTS SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT, ENGINEER AND GENERAL CONTRACTOR.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATION, AND ERECTION OF STRUCTURAL STEEL" 9TH EDITION, AND THE "CODE OF STANDARD PRACTICE, LATEST EDITION, DESIGN AND DETAIL ALL CONNECTIONS ACCORDING TO AISC.
- STRUCTURAL STEEL:
PLATES, CHANNELS, ANGLES: ASTM A36 UNO.
WIDE FLANGE SECTIONS: ASTM A992.
STRUCTURAL TUBING: ASTM A500 GRADE B46 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER ASTM A325N HIGH STRENGTH BOLTS UNO.
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL BE CONFORM TO AWS A5.1 ETOXX
- ALL STEEL SHALL BE HOT-DIP GALVANIZED PER ASTM A123. PROVIDE VENT HOLES AS REQD IN GALV MEMBERS.
- ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 HOT-DIP GALVANIZED AND AS DETAILED ON THE DRAWINGS.
- PROVIDE 1/4" THICK HOT-DIP GALVANIZED LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED. LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS PER THE DETAILS SHOWN ON THE DRAWINGS.

FOUNDATION NOTES

- FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOILS HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF OR SHALL BEAR ON COMPACTED STRUCTURAL FILL ON UNDISTURBED NATIVE SOILS HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. GC NOTIFY ENGINEER IF CLAY SOILS OR LEDGE ARE ENCOUNTERED DURING EXCAVATION AS SPECIAL FOUNDATION DESIGN MAY APPLY.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 4'-6" BELOW GRADE.
- ALL PAVEMENT, EXISTING FOUNDATIONS AND UNCONTROLLED GRANULAR FILL SHOULD BE REMOVED FROM THE AREA OF THE PLANNED CONSTRUCTION TO AT LEAST 4 FEET BEYOND THE FOOTING LIMIT.
- COMPACTED STRUCTURAL FILL SHALL BE USED TO BACKFILL TO THE DESIGN FOOTING SUBGRADE AND BENEATH ALL SLABS ON GRADE.
- STRUCTURAL FILL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED BENEATH SLABS TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST.
- SLOPE EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY PER OSHA REQUIREMENTS.

REINFORCED CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:
ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
ACI 305 "HOT WEATHER CONCRETING"
ACI 306 "COLD WEATHER CONCRETING"
ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- CEMENT: ASTM C150, TYPE I. MAXIMUM AGGREGATE SIZE 3/4". CALCIUM CHLORIDE NOT PERMITTED.
- CONCRETE FOR FOOTINGS, FOUNDATION PIERS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, UNO. WATER-CEMENT RATIO SHALL NOT EXCEED 0.50, UNO.
- CONCRETE SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 5% TO 6%.
- SLUMP SHALL NOT EXCEED 5" +/- 1" PER ASTM C143 UNLESS AN APPROVED WATER REDUCING ADMIXTURE IS USED. MAXIMUM SLUMP AFTER ADDITION OF ADMIXTURE IS 8".
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. REINFORCEMENT SHALL BE FREE OF FROST, SNOW AND ICE. GENERAL CONTRACTOR SHALL HEAT CONCRETE MATERIALS AND PROTECT CONCRETE AFTER PLACEMENT WHEN PLACING AT OR BELOW 50F TEMPERATURES IN ACCORDANCE WITH ACI306.
- FORM RELEASE AGENT SHALL BE APPLIED PRIOR TO FORM ERECTION TO AVOID CONTACT WITH REINFORCING STEEL.
- DEPOSIT CONCRETE IN FORMS IN HORIZONTAL LAYERS NOT DEEPER THAN 18" AND IN A MANNER TO AVOID INCLINED CONSTRUCTION JOINTS. WHERE PLACEMENT CONSISTS OF SEVERAL LAYERS, PLACE EACH LAYER WHILE THE PRECEDING LAYER IS STILL PLASTIC TO AVOID CONSTRUCTION JOINTS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 WITH 60,000 PSI YIELD STRENGTH WITH MINIMUM ANCHORAGE AND SPLICE REQUIREMENTS FOR REINFORCING IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
FOOTINGS: 3"
PIERS: 2" TO TIES
- USE NON-SHRINK GROUT BENEATH BASE PLATES & BEARING PLATES.
- TIE HOLES, BUG HOLES, VOIDS AND SURFACE IRREGULARITIES LARGER THAN 1/2" IN DIAMETER OR DEEPER THAN 1/8" OR BOTH, SHOULD BE EITHER PRETREATED WITH ENGINEER-APPROVED LIQUID FOUNDATION WATERPROOFING OR REPAIRED WITH A LEAN CONCRETE MIX OF GROUT. SEE ASTM D5245, PREPARATION OF CONCRETE SURFACES FOR ADHERED MEMBRANE WATERPROOFING SYSTEMS, FOR FURTHER DETAILS CONCERNING SUBSTRATE PREPARATION.
- GC NOTIFY ENGINEER 48 HRS PRIOR TO COMPLETION OF FORMWORK AND PLACEMENT OF REINFORCEMENT.



MARKET STREET GATEWAY KIOSK

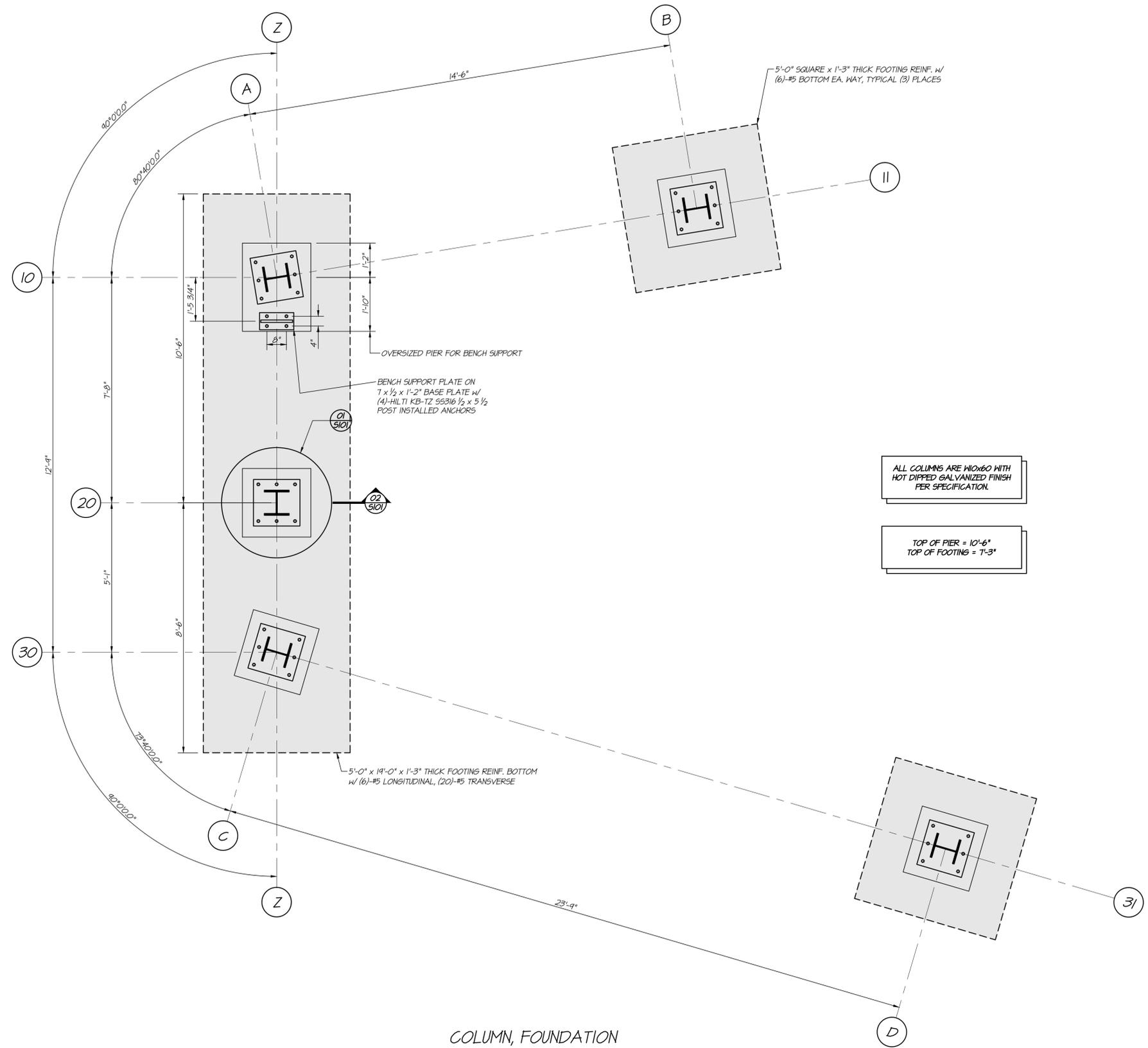
RIVERFRONT PARK ON MARKET STREET
PORTSMOUTH, NEW HAMPSHIRE



ALBERT PUTNAM ASSOCIATES, LLC
STRUCTURAL ENGINEERS
183 PARK ROW
BRUNSWICK, MAINE 04011
(207) 729-6230

STRUCTURAL
GENERAL NOTES

S001



ALL COLUMNS ARE 10x60 WITH HOT DIPPED GALVANIZED FINISH PER SPECIFICATION.

TOP OF PIER = 10'-6"
TOP OF FOOTING = 7'-3"

COLUMN, FOUNDATION & LAYOUT PLAN
 1/2" = 1'-0" (22x34 SHEET)
 1/4" = 1'-0" (16x17 SHEET)

MARKET STREET GATEWAY KIOSK

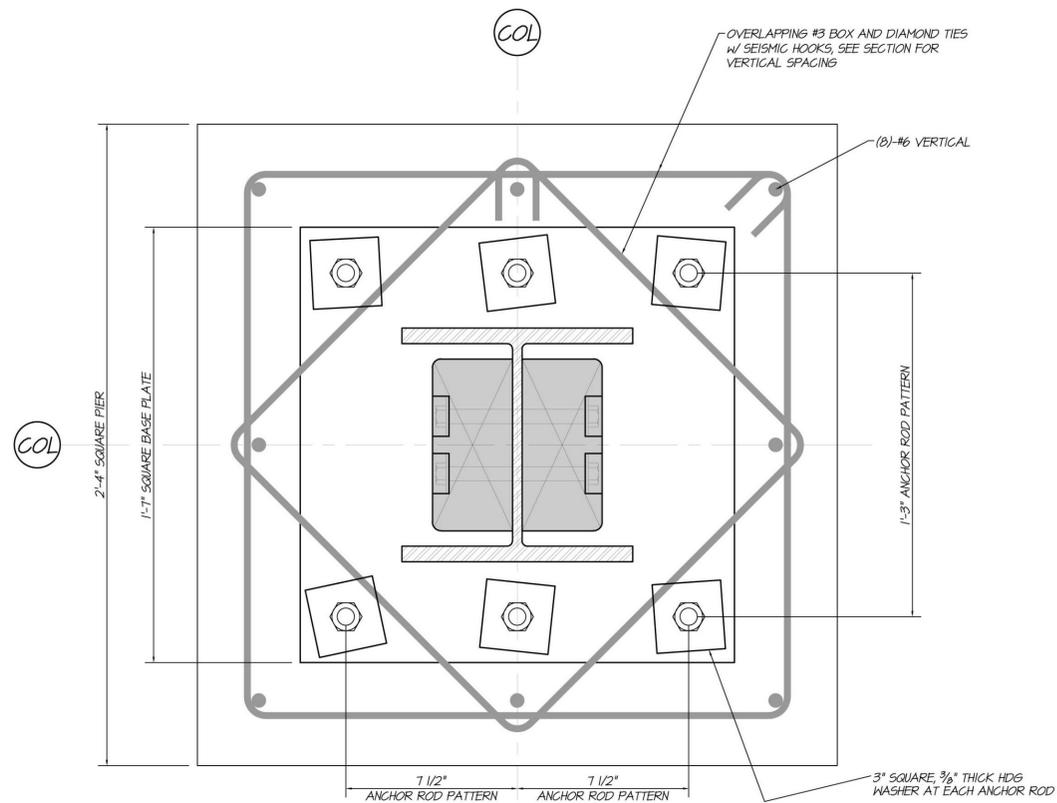
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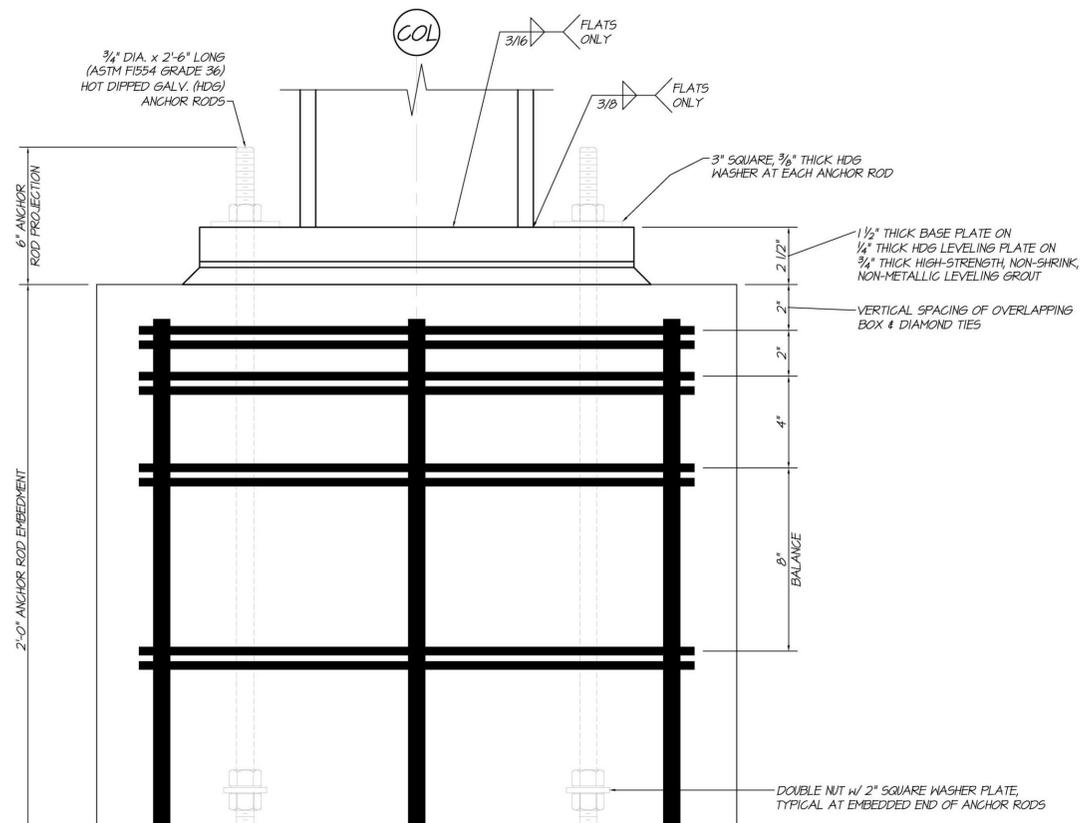
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FOUNDATION & LAYOUT PLAN

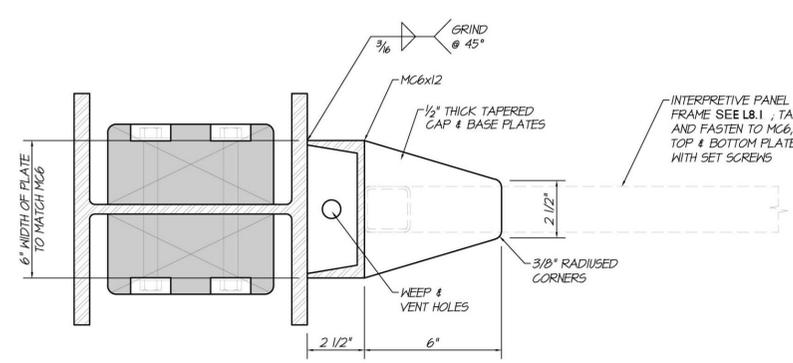
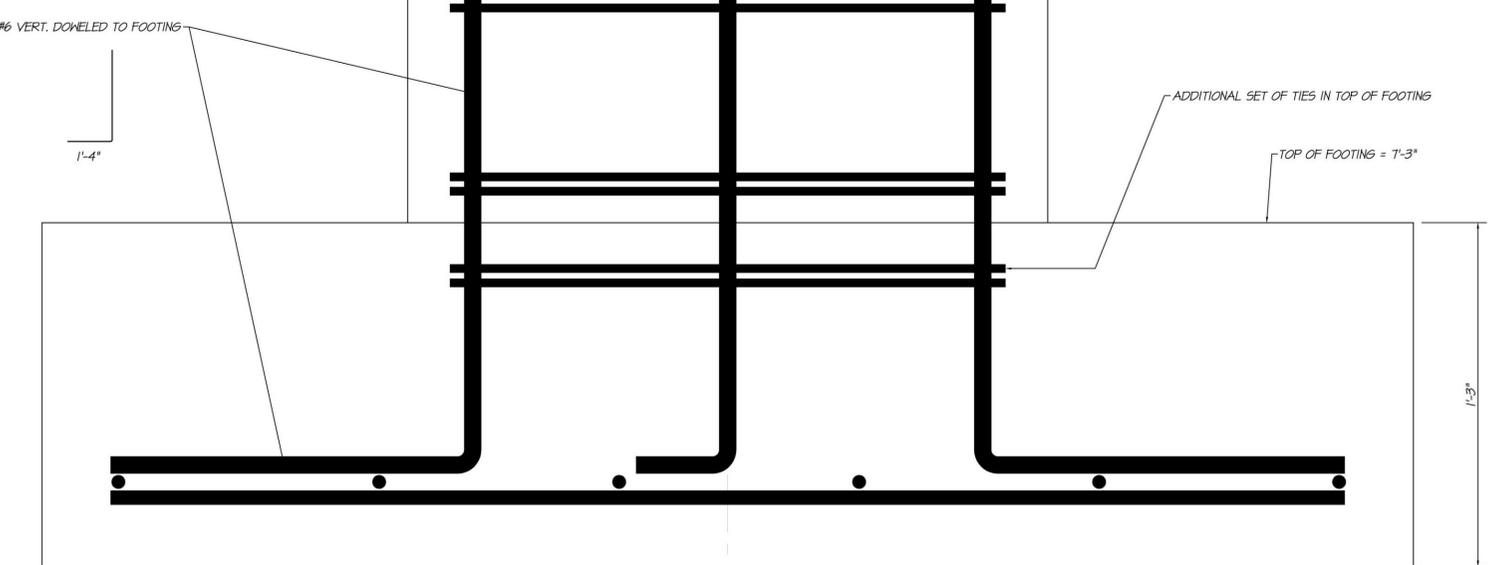
S100



TYP. PIER, BASE PLATE & RODS 01
 3" = 1'-0" (22x34 SHEET)
 1 1/2" = 1'-0" (11x17 SHEET)



TYP. COLUMN TO PIER & FTG. 02
 3" = 1'-0" (22x34 SHEET)
 1 1/2" = 1'-0" (11x17 SHEET)



DETAIL 03
 3" = 1'-0" (22x34 SHEET)
 1 1/2" = 1'-0" (11x17 SHEET)

NOTE:
 SEE 5 / 5200 FOR
 MORE INFORMATION

MARKET STREET GATEWAY KIOSK
 RIVERFRONT PARK ON MARKET STREET
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TYPICAL FOUNDATION DETAILS

S101



MARKET STREET GATEWAY KIOSK

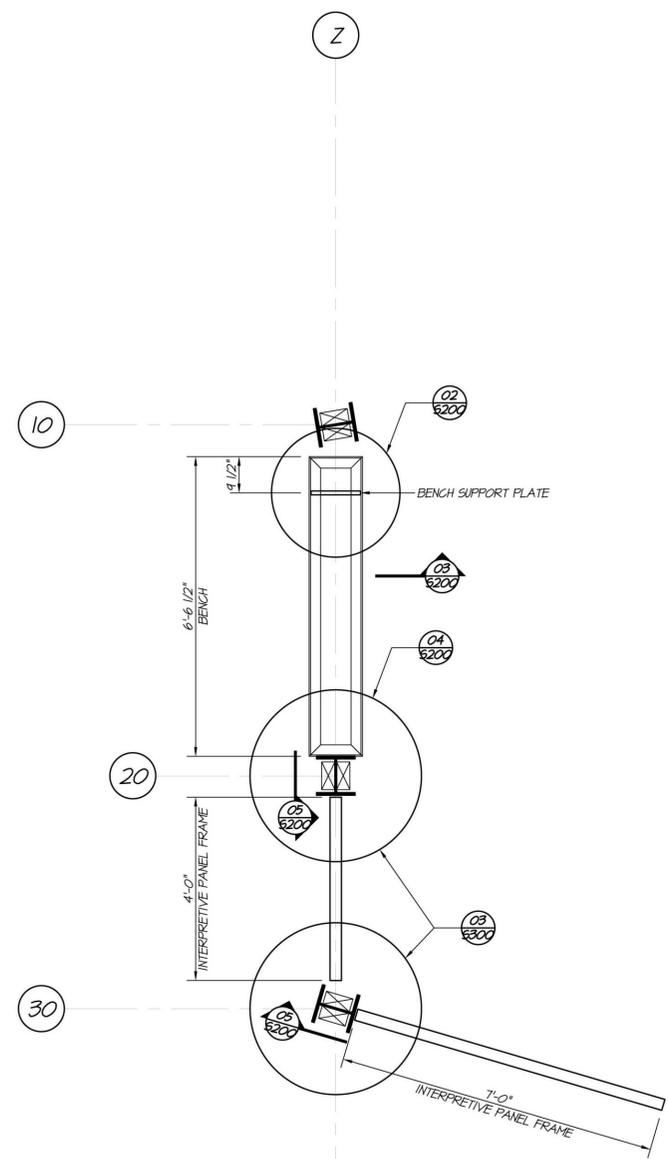
RIVERFRONT PARK ON MARKET STREET
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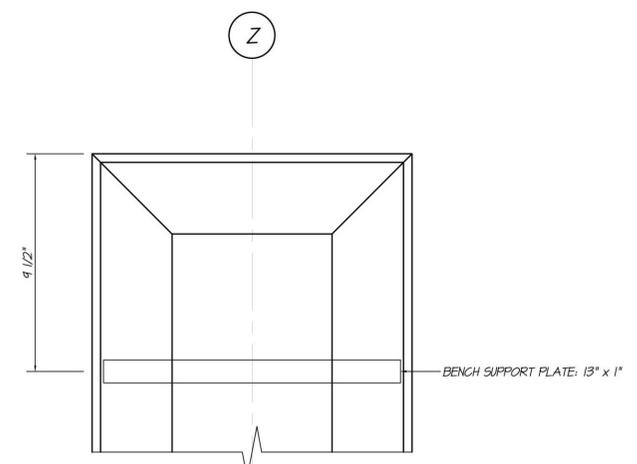
COLUMN, BENCH, PANEL PLAN

S200



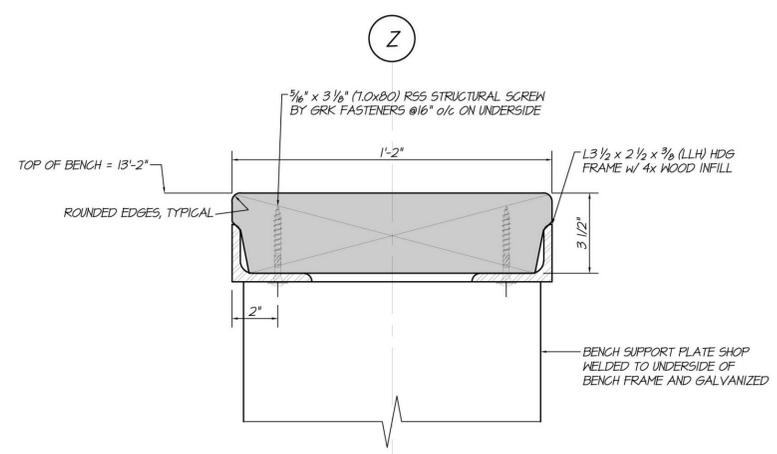
BENCH & INTERPRETIVE PANEL PLAN
1/2" = 1'-0" (22x34 SHEET)
1/4" = 1'-0" (11x17 SHEET)

01
S200



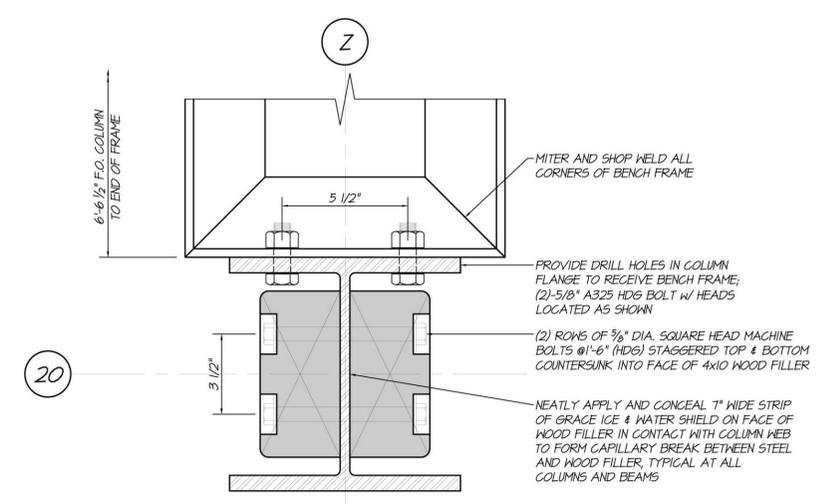
DETAIL
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1 1/2" = 1'-0" (11x17 SHEET)

02
S200



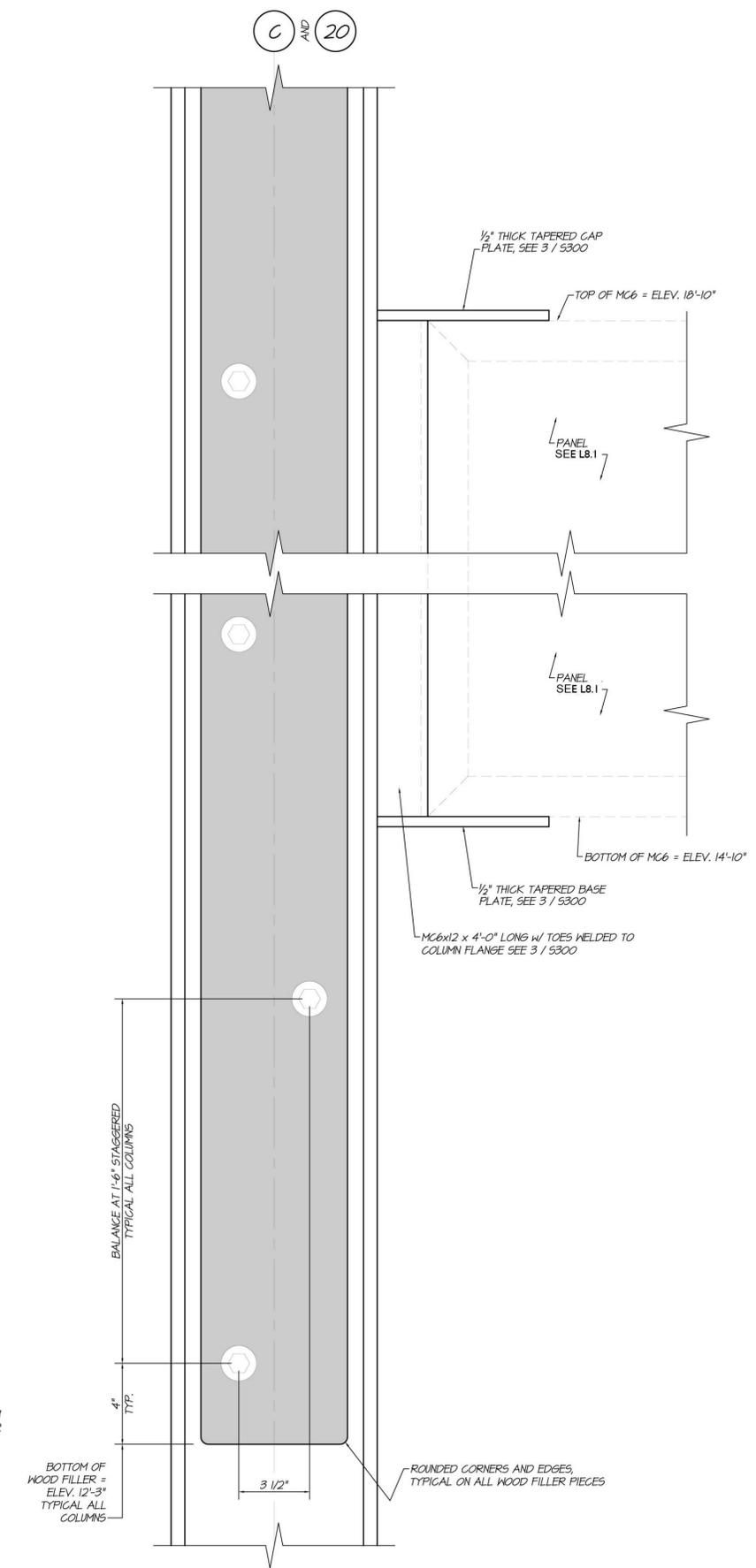
SECTION
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1 1/2" = 1'-0" (11x17 SHEET)

03
S200



DETAIL
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1 1/2" = 1'-0" (11x17 SHEET)

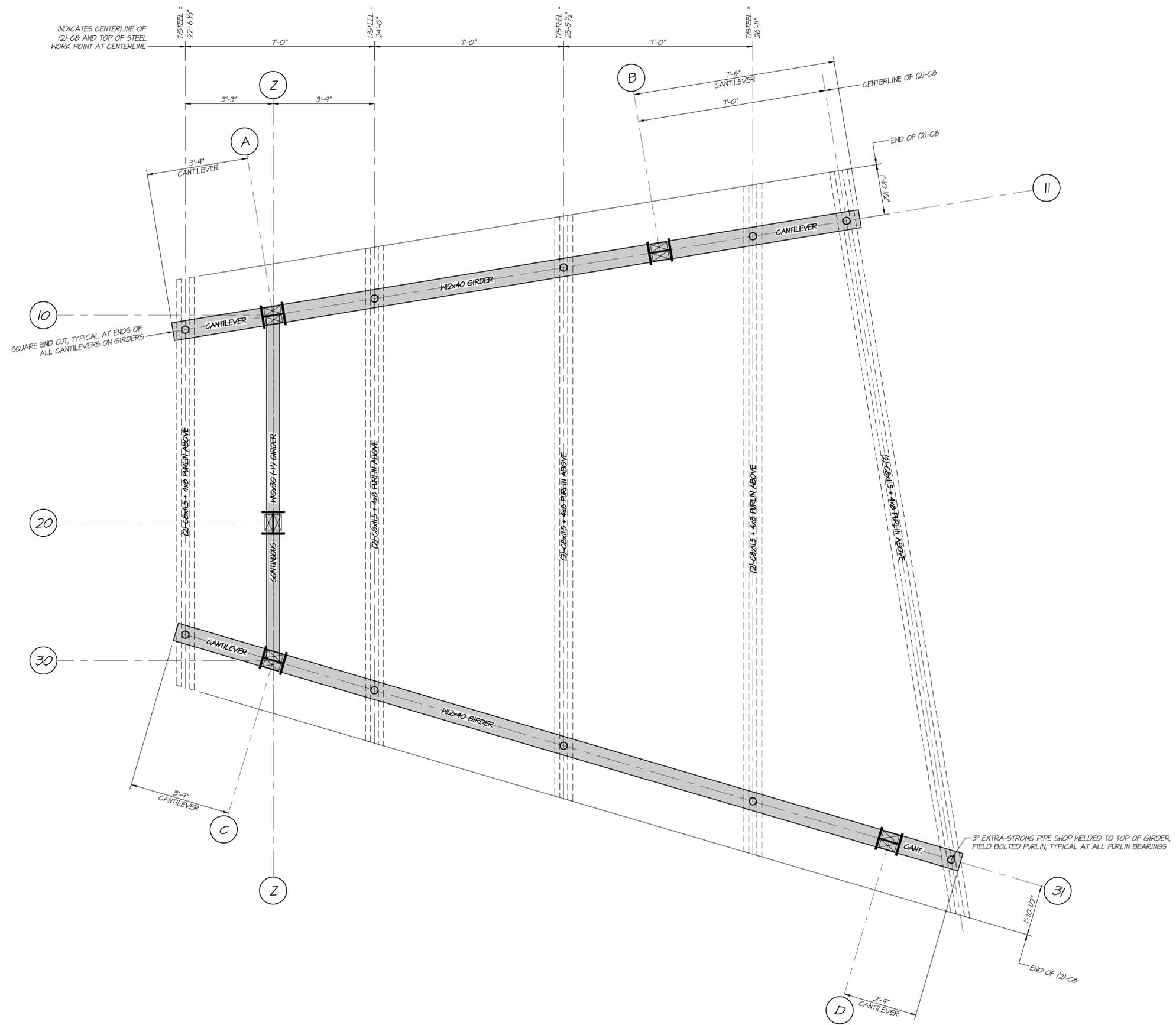
04
S200



TYP. PANEL CONNECTION
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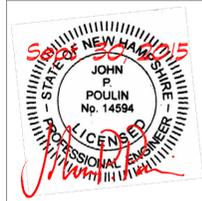
05
S200

NOTE:
SEE 3 / S300 FOR
MORE INFORMATION



MARKET STREET GATEWAY KIOSK

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GIRDER FRAMING PLAN

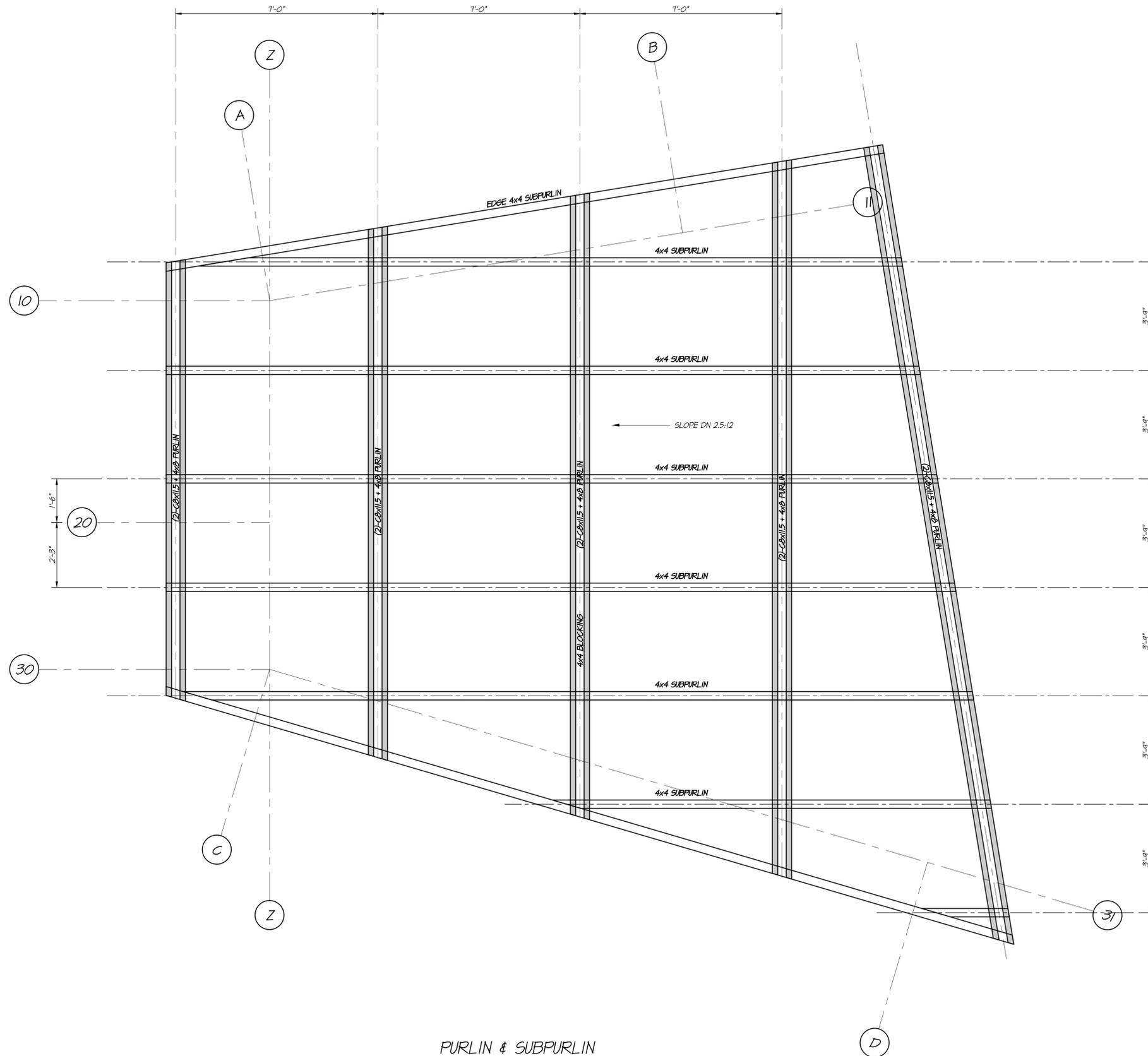
S201

GIRDER FRAMING PLAN
1/2" = 1'-0" (22x34 SHEET)
1/4" = 1'-0" (11x17 SHEET)



MARKET STREET GATEWAY KIOSK

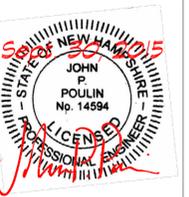
RIVERFRONT PARK ON MARKET STREET
PORTSMOUTH, NEW HAMPSHIRE



PURLIN & SUBPURLIN
FRAMING PLAN

1/2" = 1'-0" (22x34 SHEET)
1/4" = 1'-0" (11x17 SHEET)

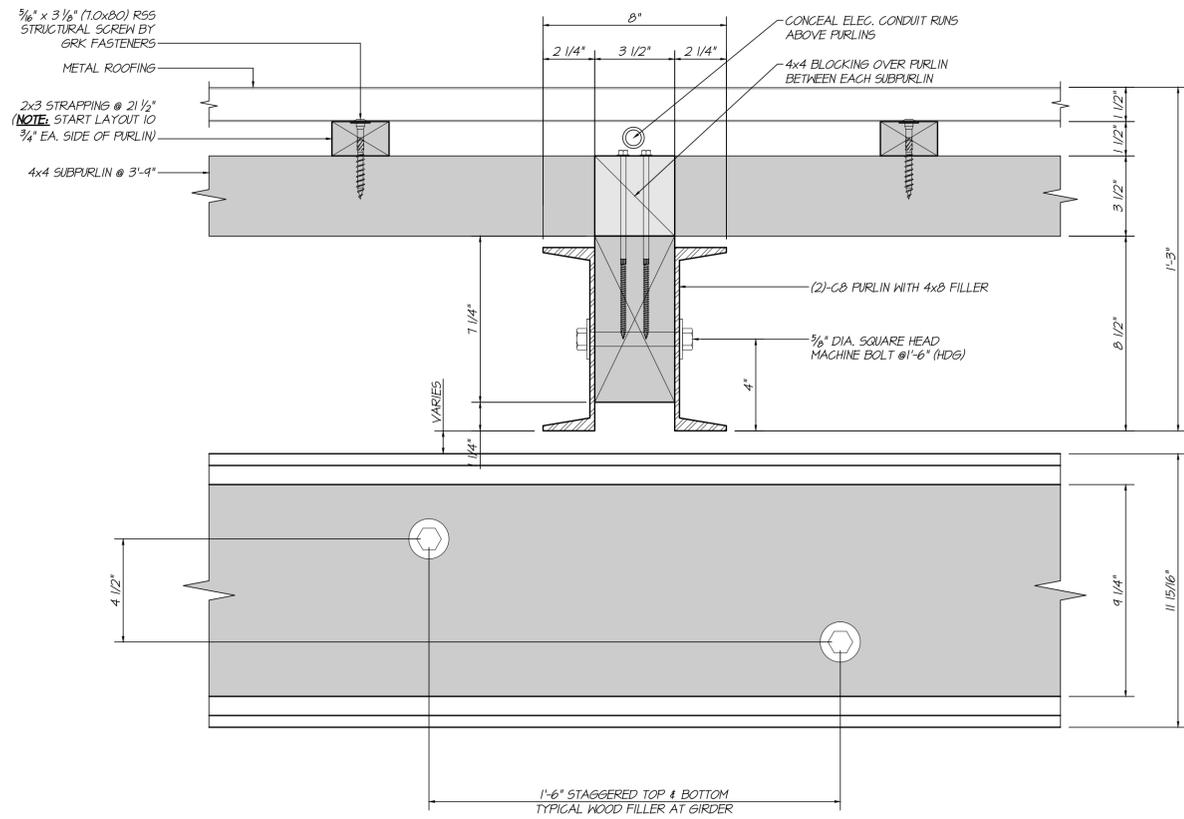
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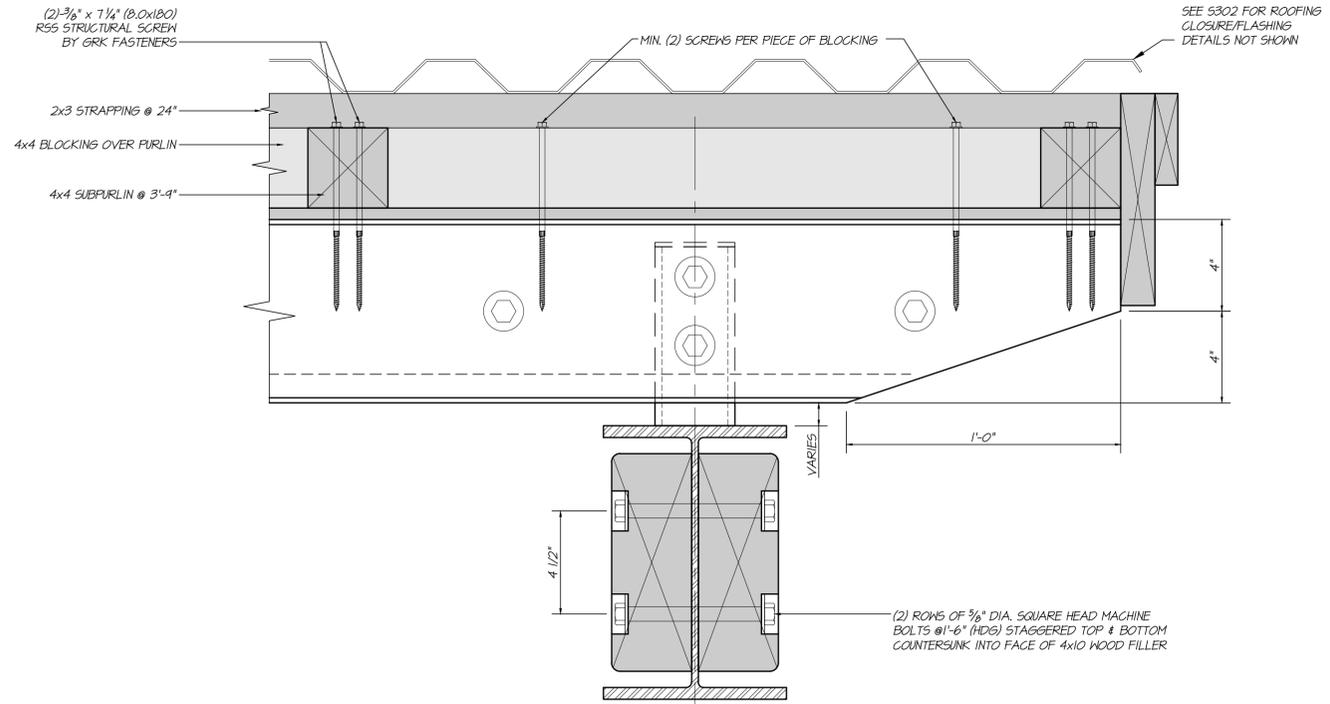
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PURLIN & SUBPURLIN
FRAMING PLAN

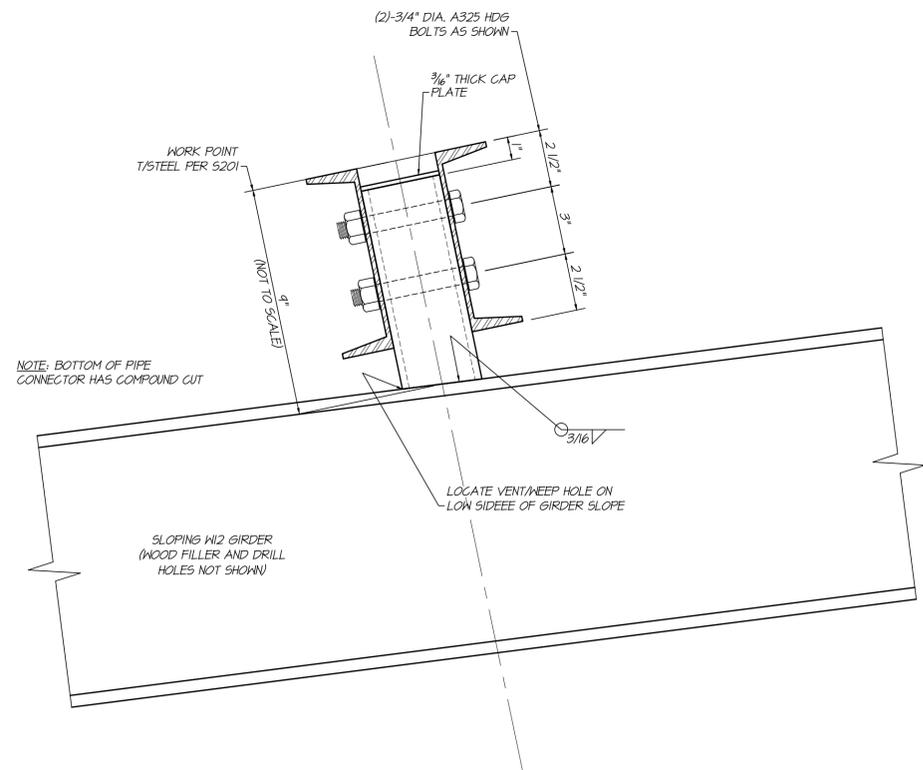
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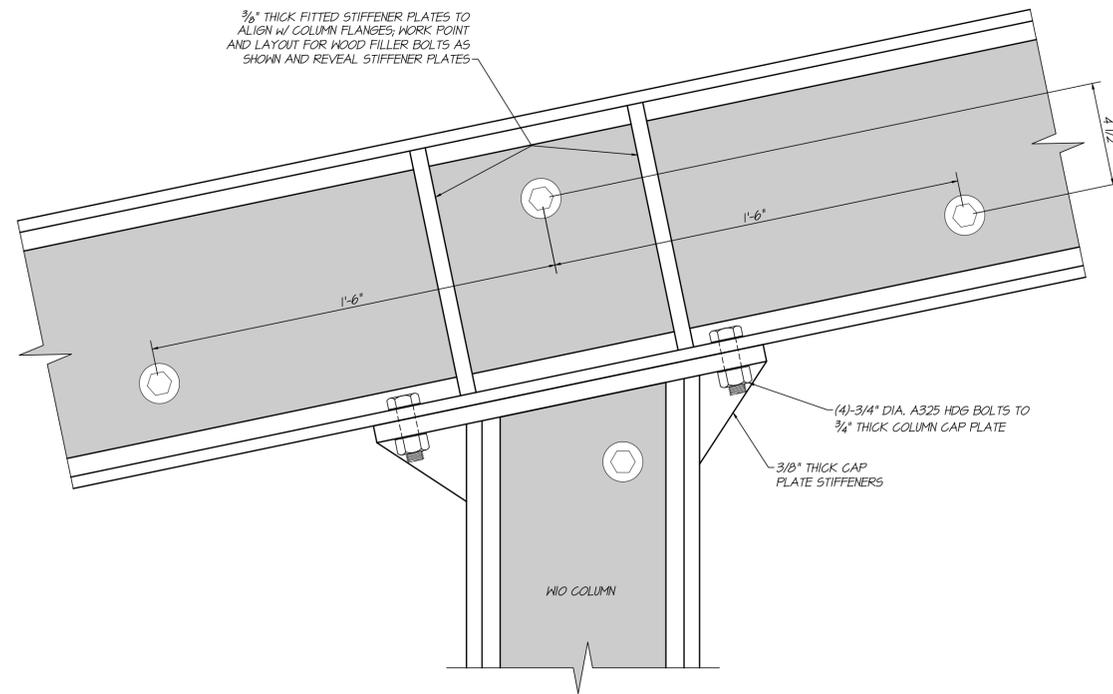
TYP. SUBPURLIN TO PURLIN (03)
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 1 1/2" = 1'-0" (1x17 SHEET)
 S301



TYP. EDGE CONDITION (04)
 3" = 1'-0" (22x34 SHEET)
 1 1/2" = 1'-0" (1x17 SHEET)
 S301



TYP. PURLIN TO GIRDER (05)
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 1 1/2" = 1'-0" (1x17 SHEET)
 S301

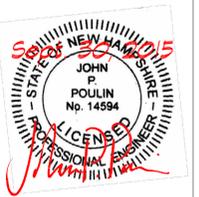


TYP. GIRDER TO COLUMN (06)
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 S301



MARKET STREET GATEWAY KIOSK

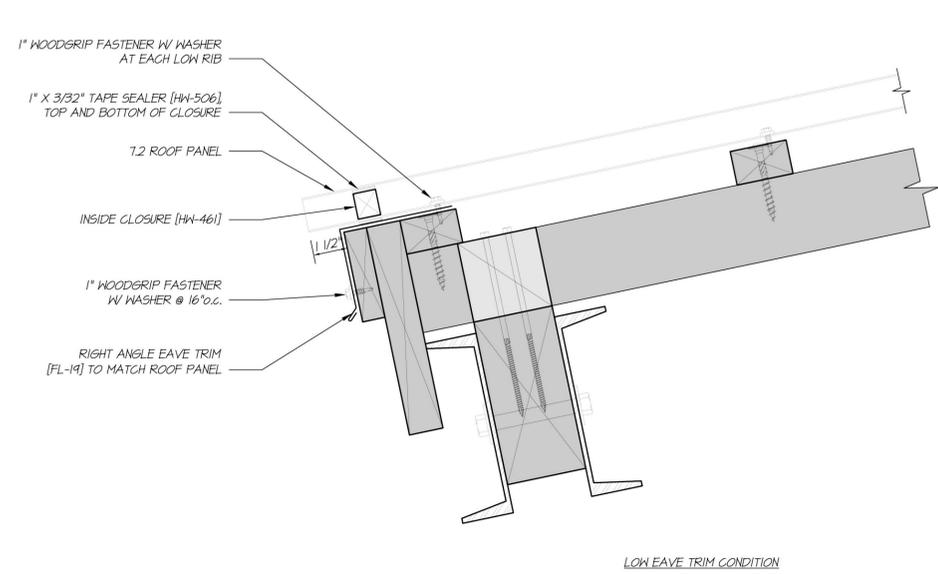
RIVERFRONT PARK ON MARKET STREET
 PORTSMOUTH, NEW HAMPSHIRE



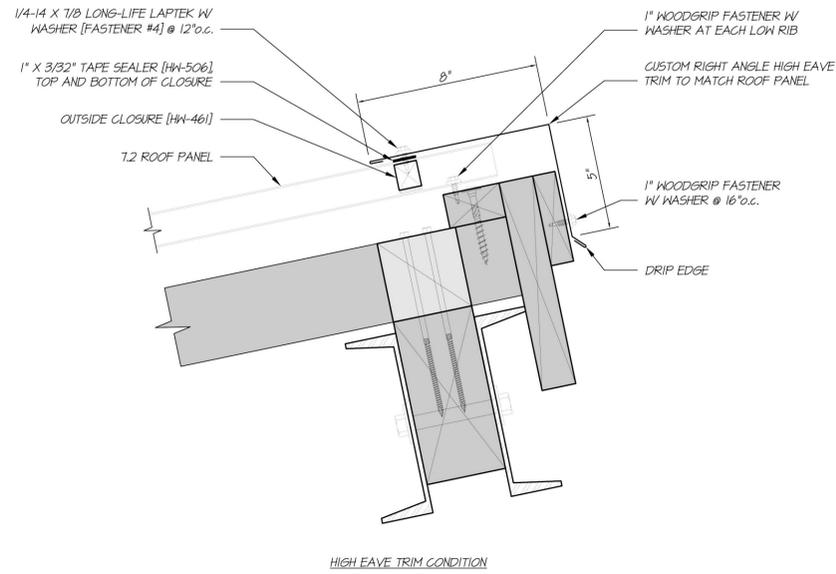
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TYPICAL FRAMING DETAILS

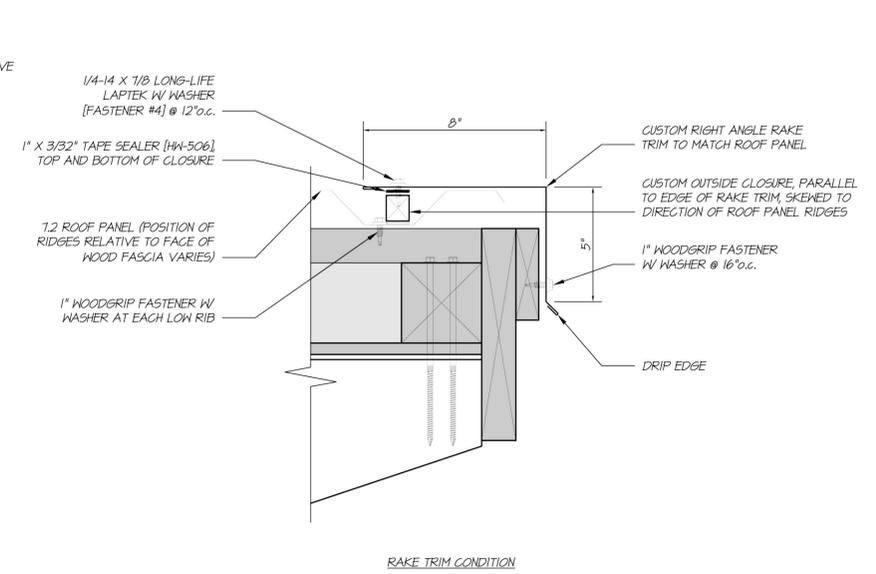
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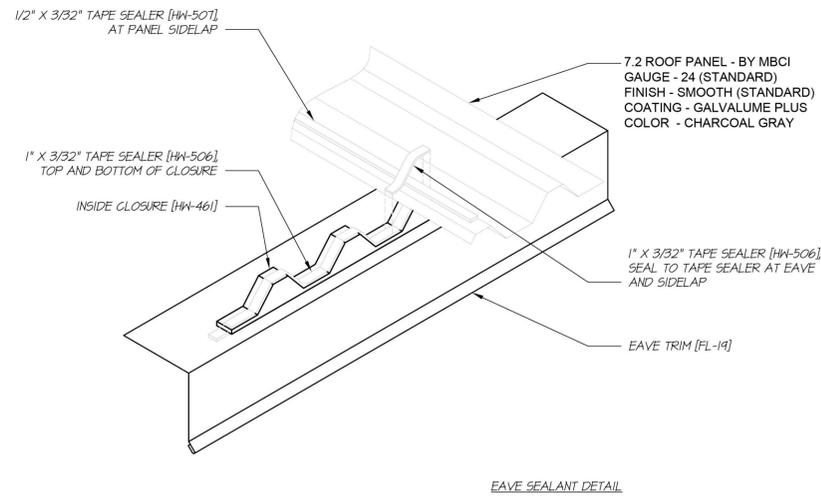
LOW EAVE TRIM CONDITION



HIGH EAVE TRIM CONDITION



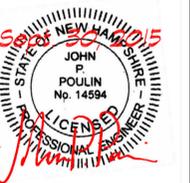
RAKE TRIM CONDITION



EAVE SEALANT DETAIL

MARKET STREET GATEWAY KIOSK

RIVERFRONT PARK ON MARKET STREET
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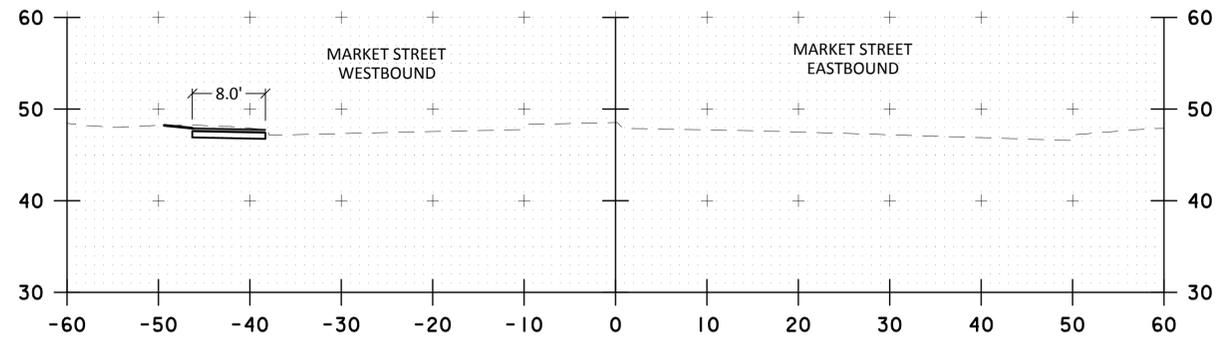
ROOF EDGE
DETAILS

S302

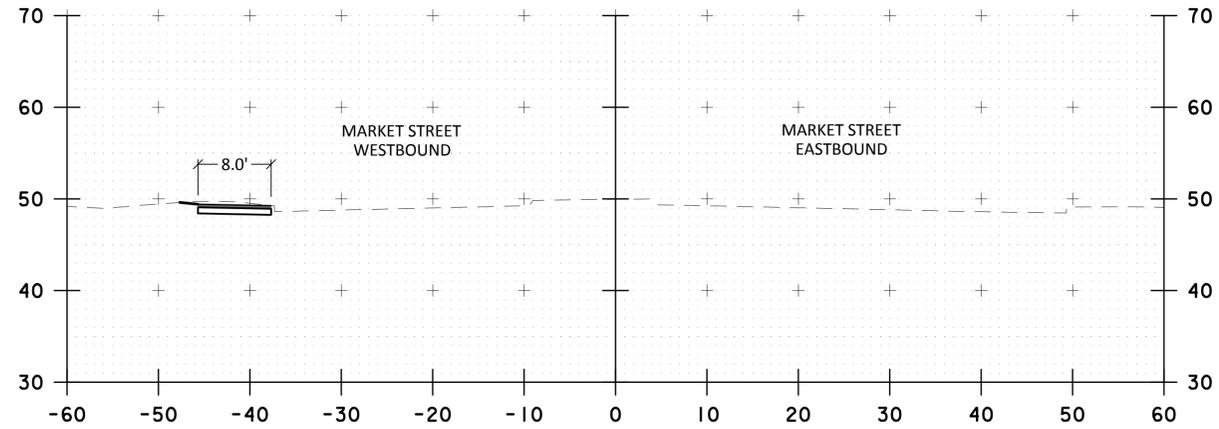
TYP. EDGE CONDITIONS

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1 1/2" = 1'-0" (11x17 SHEET)

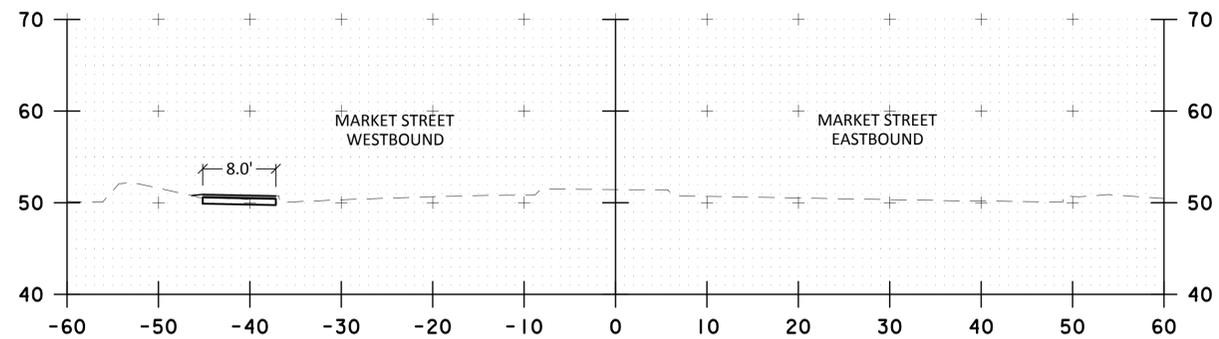
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S302



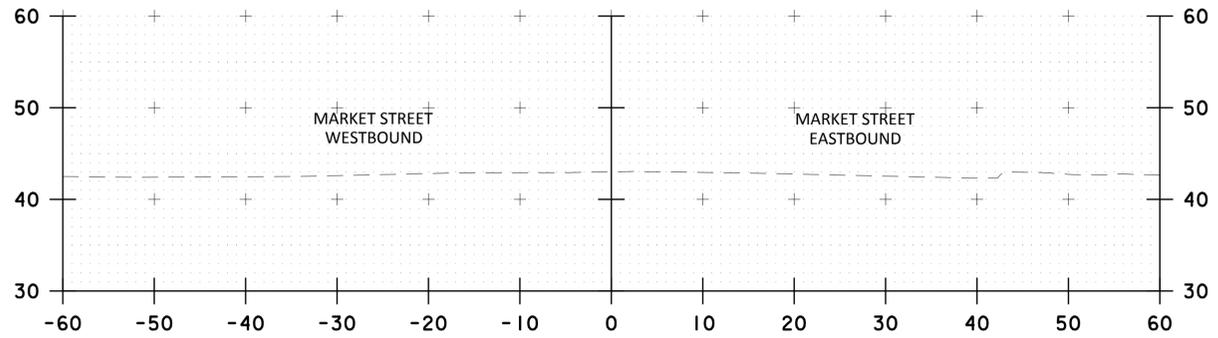
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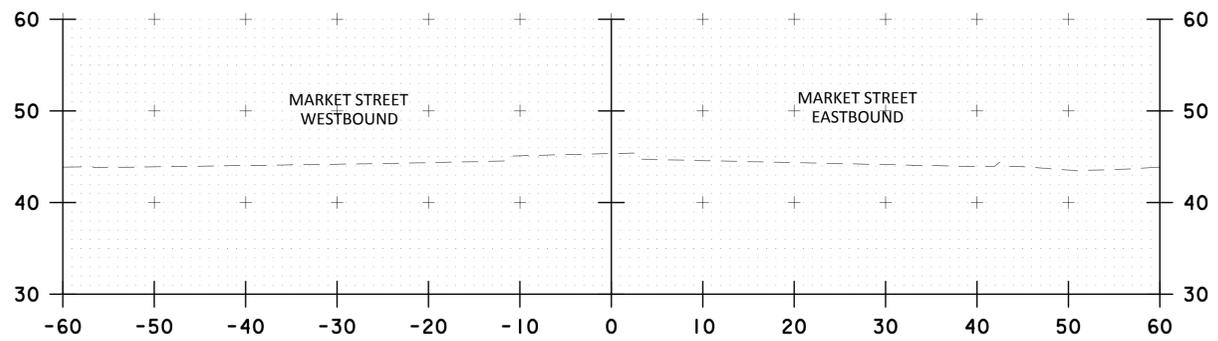
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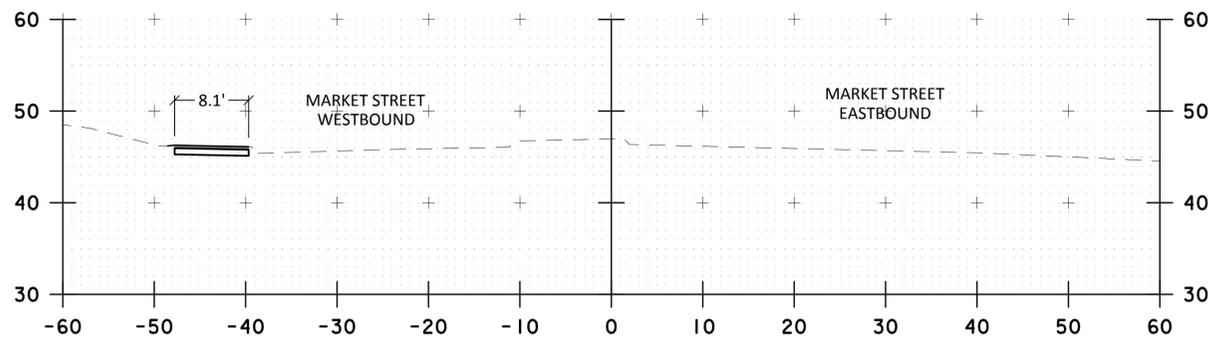
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298+00



297+50



297+00

no.	revision	revision	date	by

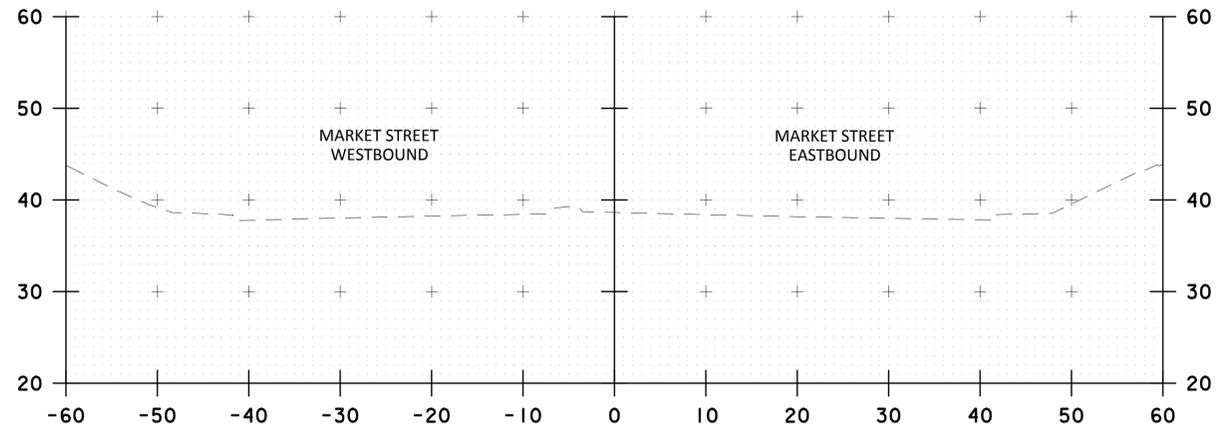


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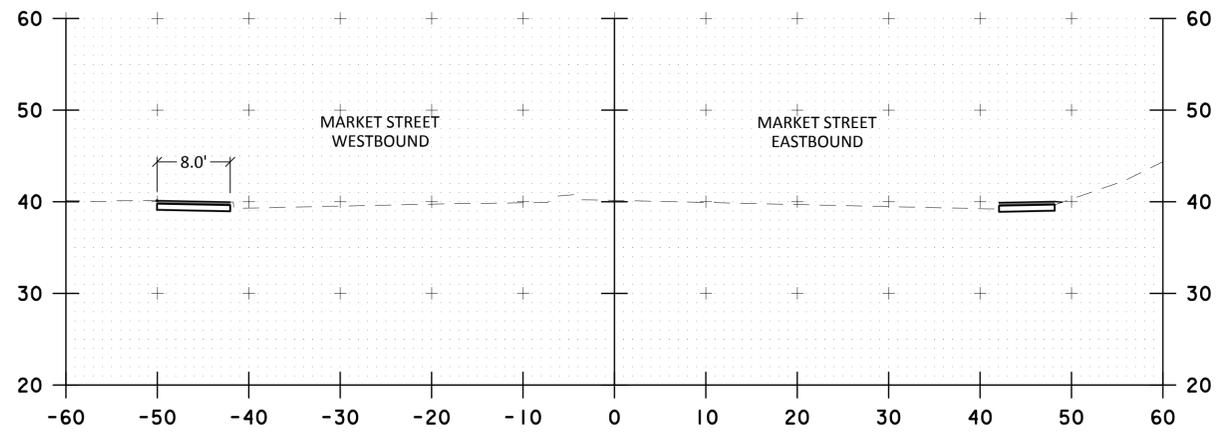
RSRG
the science of insight
55 Railroad Row, White River Junction, Vermont 05001
802.295.4999 | fax 802.295.1006 | www.rsginc.com

Richardson & Associates
Landscape Architects

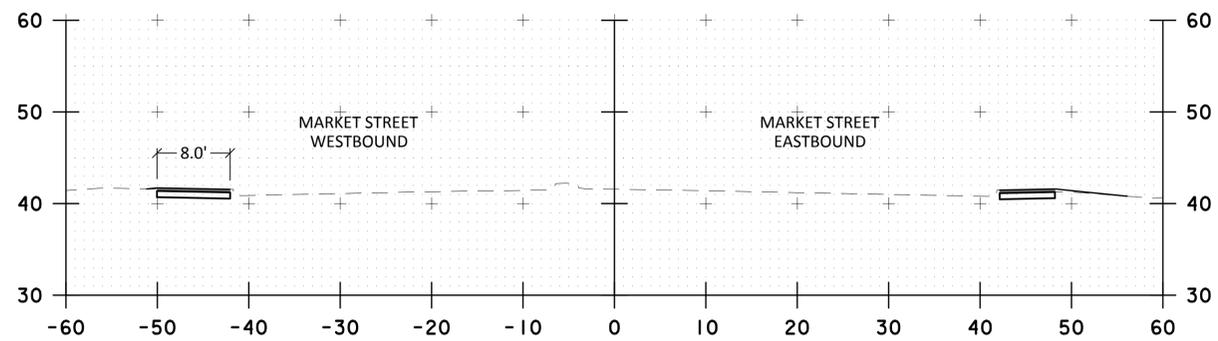
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 1



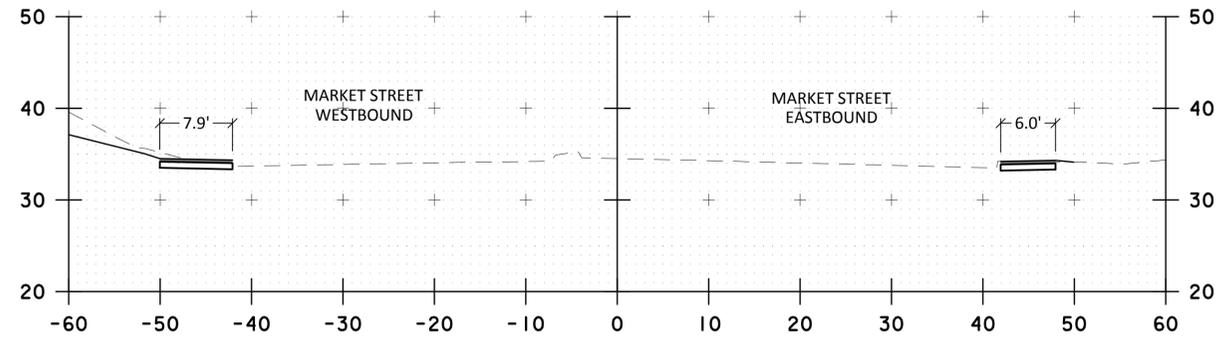
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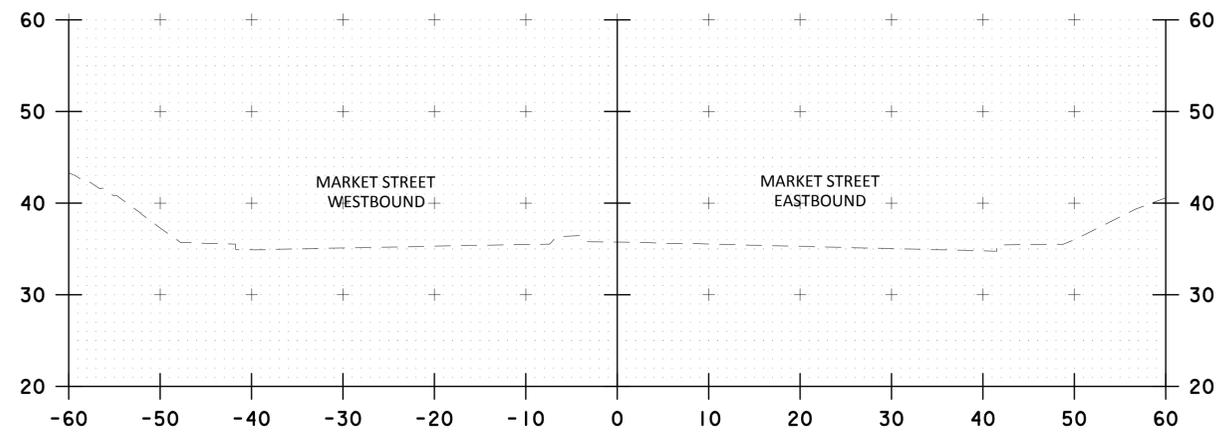
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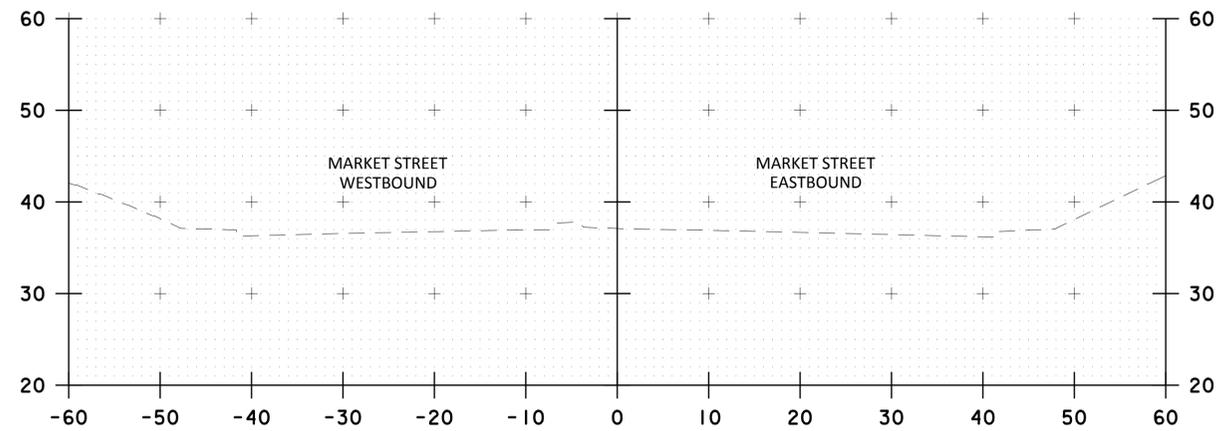
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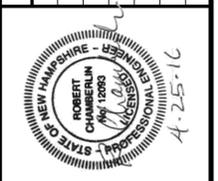


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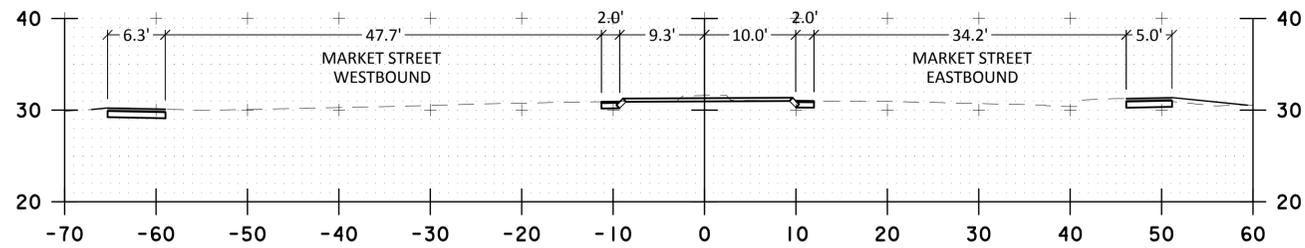
PROJECT No.	DESIGNED BY:	CHECKED BY:	SCALE:
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 55 Railroad Row, White River Junction, Vermont 05001
 802.295.4999 | fax 802.295.1006 | www.rsginc.com

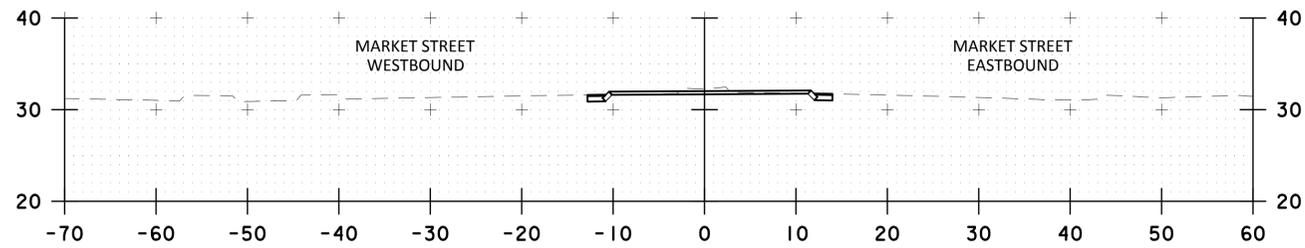
Richardson & Associates
 Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 2

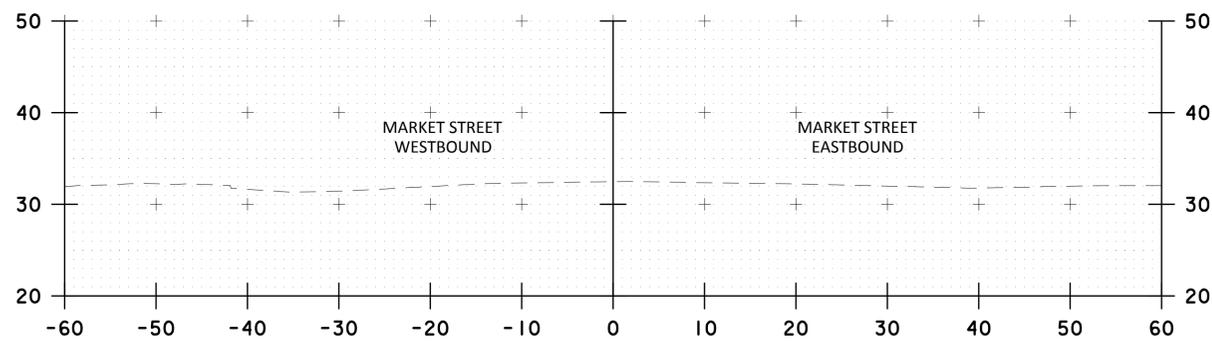
DATE: NOVEMBER 2015
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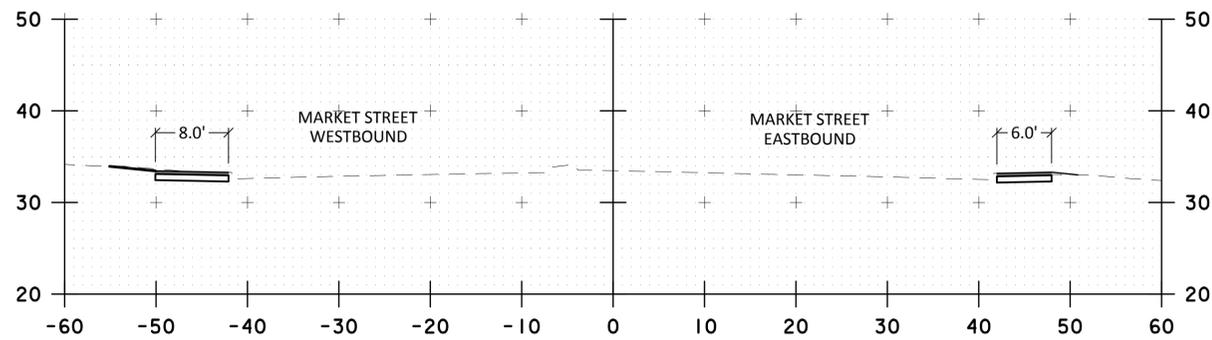
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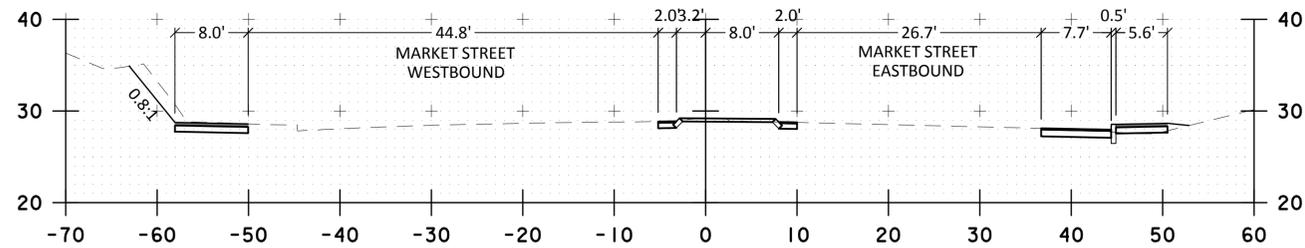
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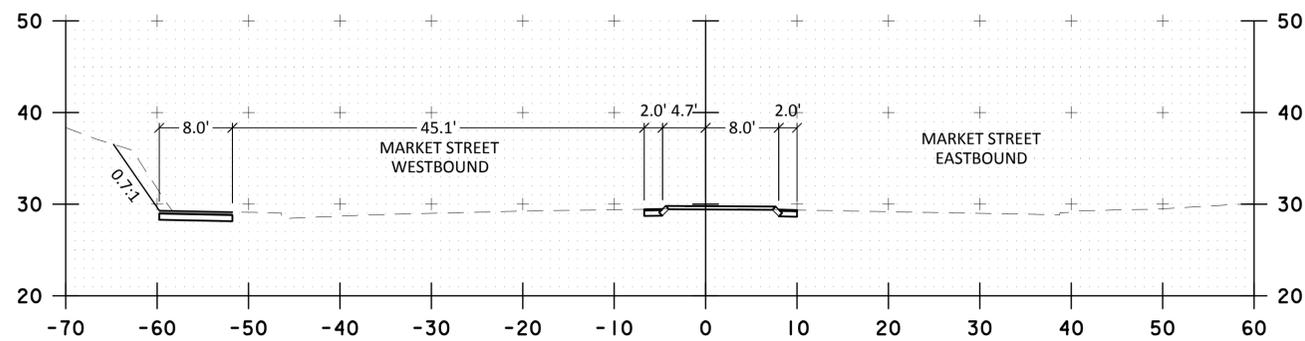
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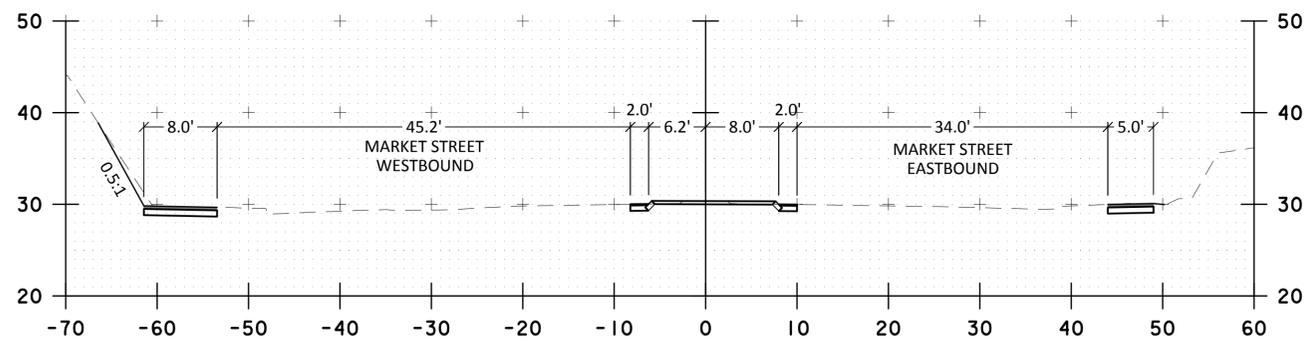
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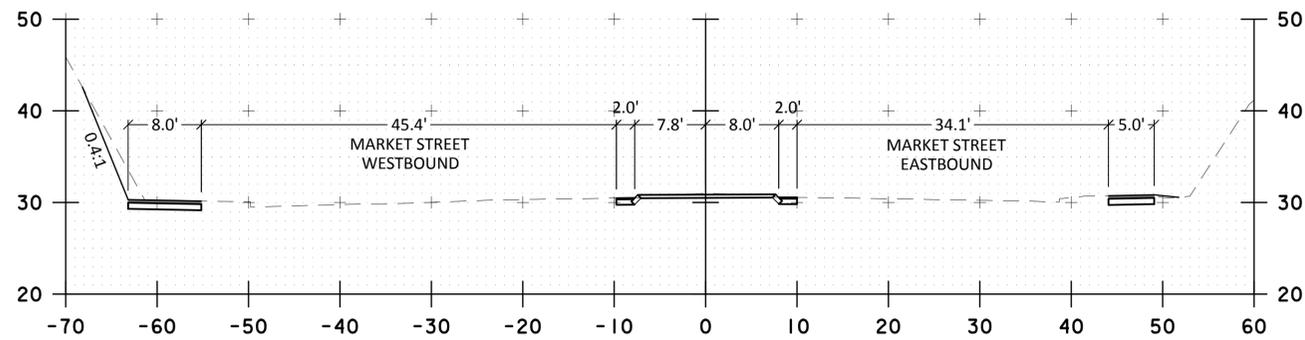
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304+50



304+00



303+50

no.	revision	date	by



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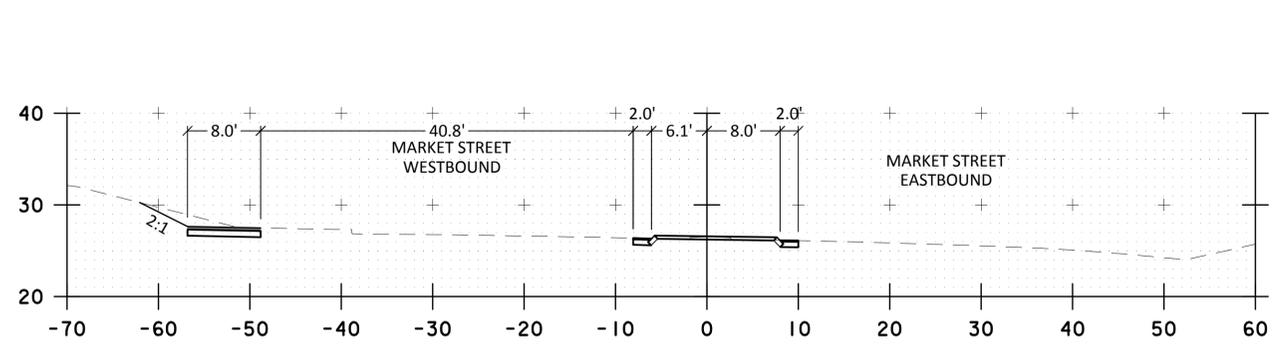
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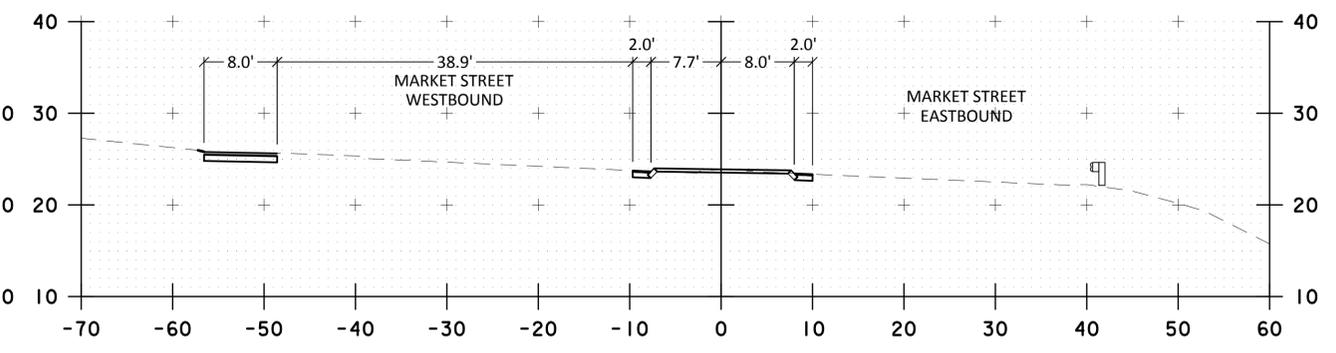
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 3

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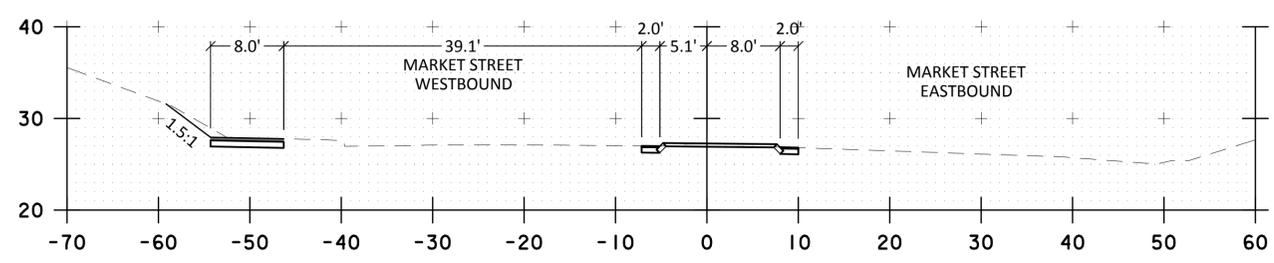
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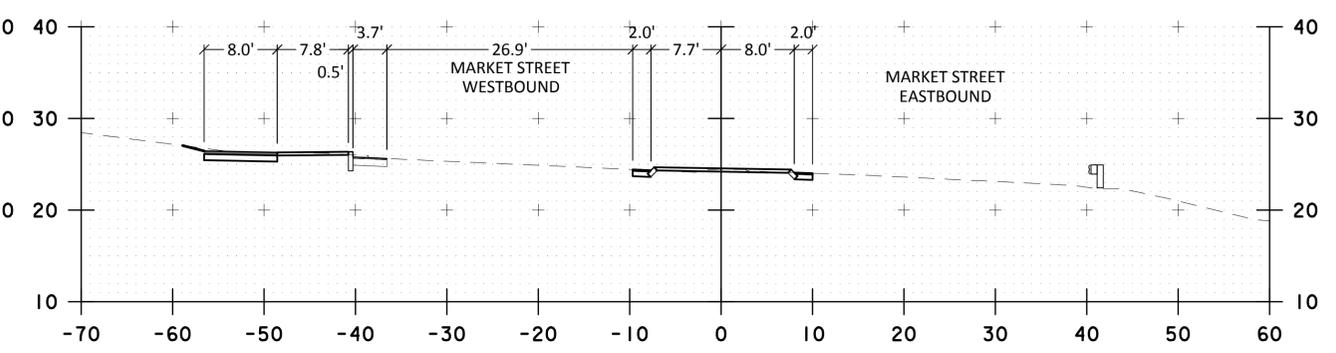
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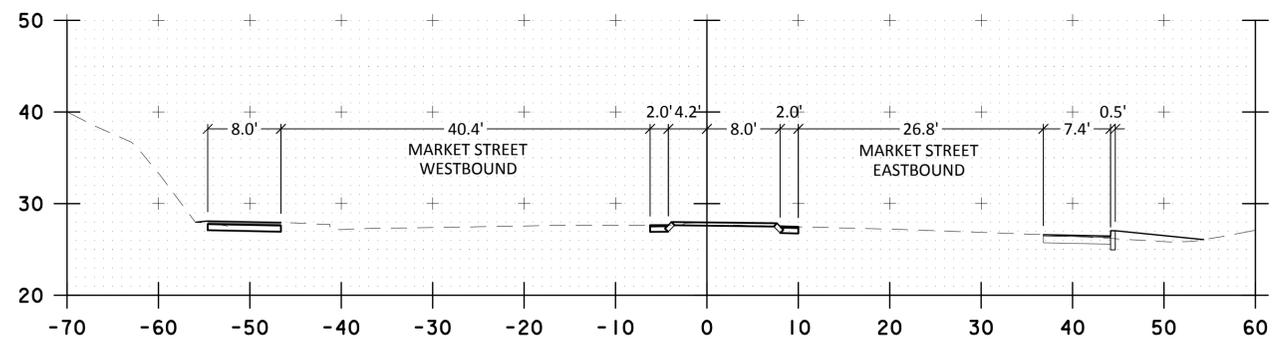
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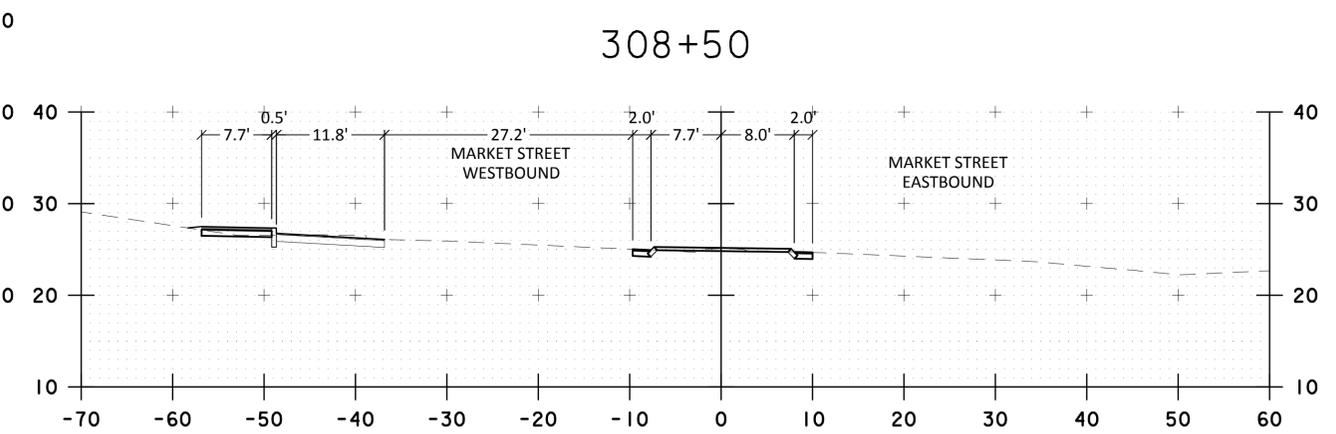
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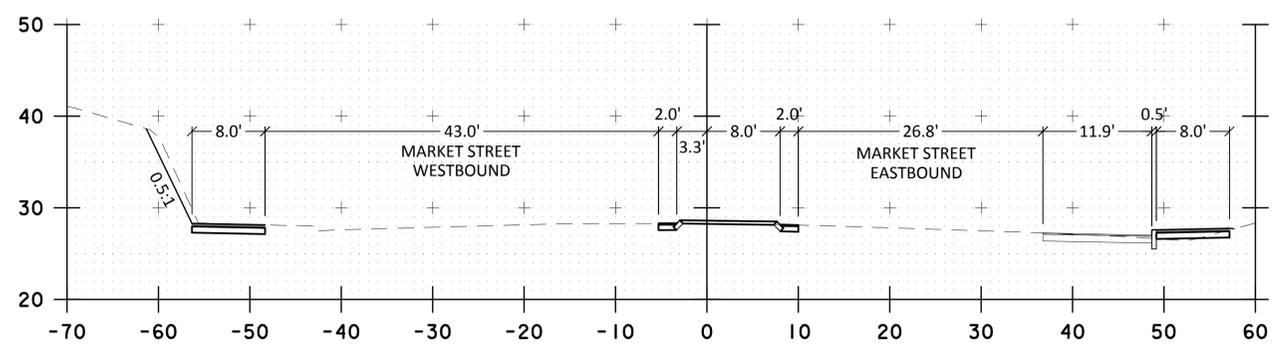
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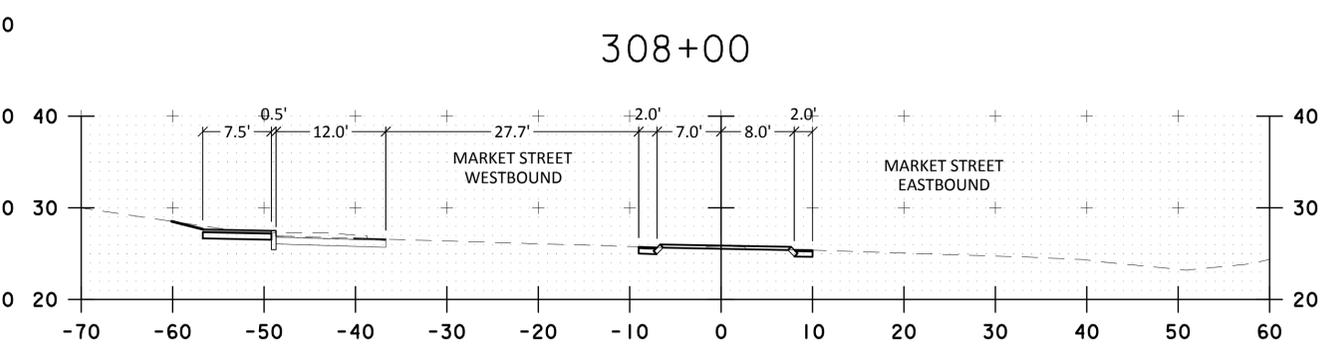
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no.	revision	revision	date	by



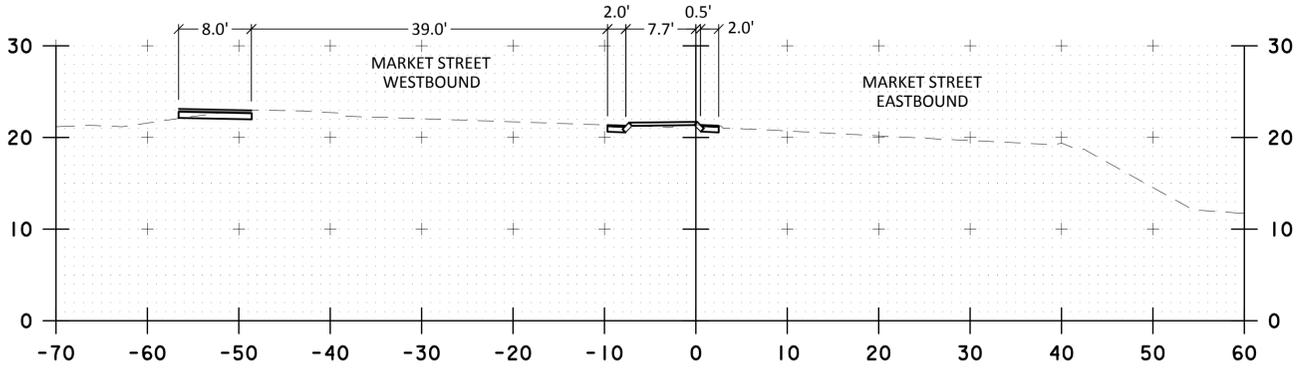
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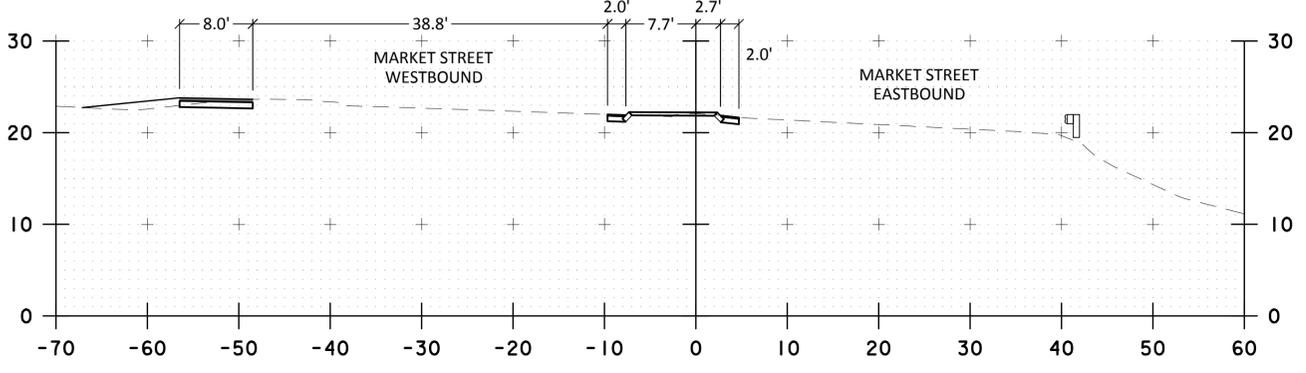
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 4

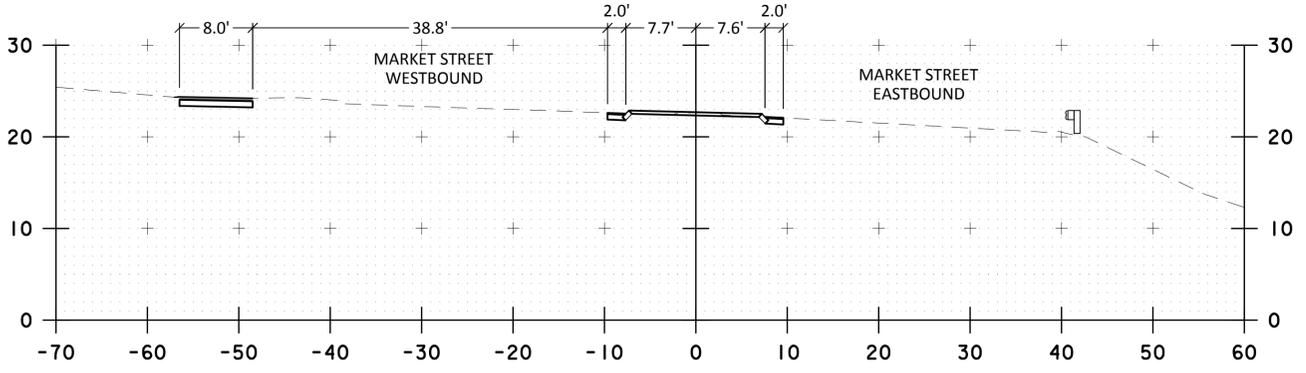
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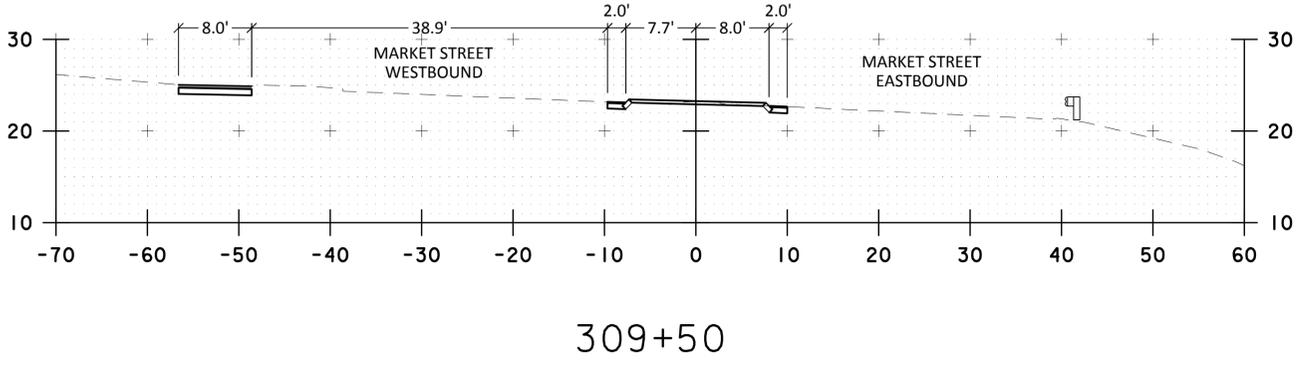
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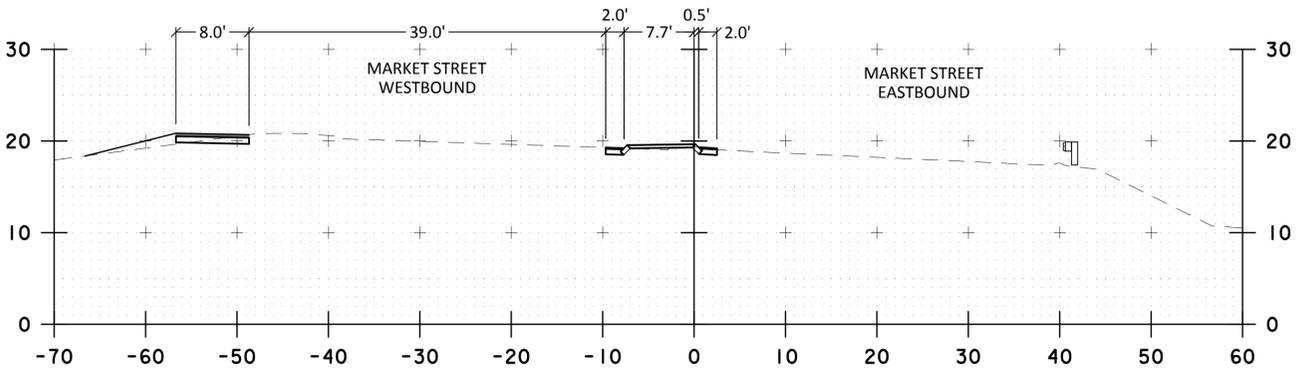
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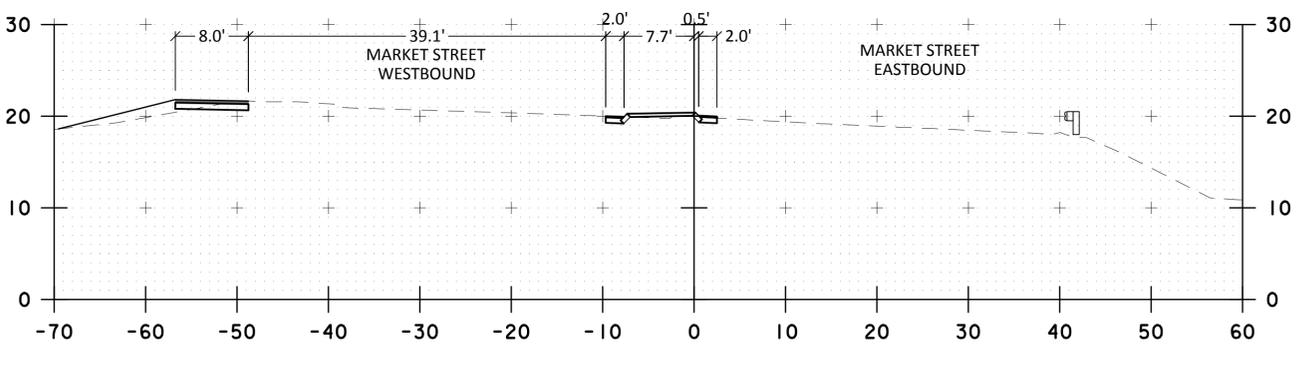
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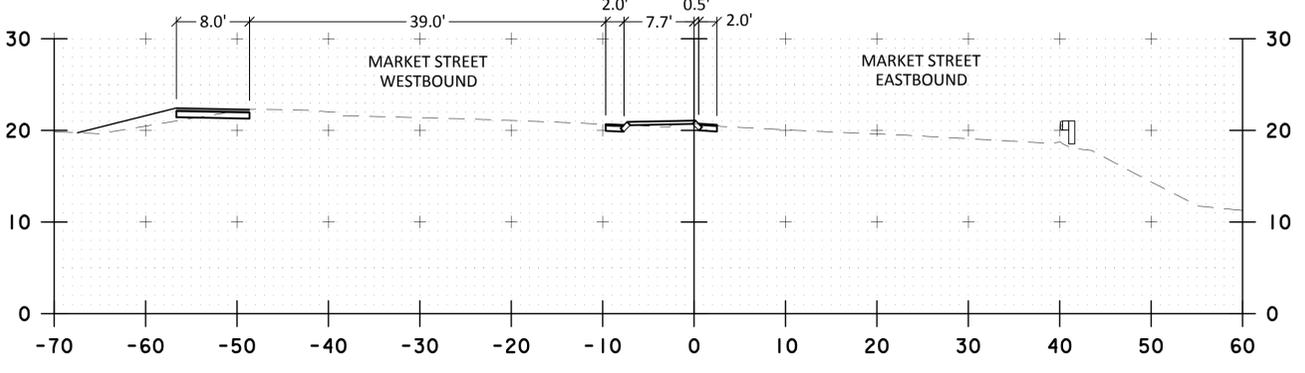
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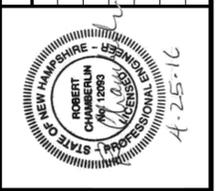


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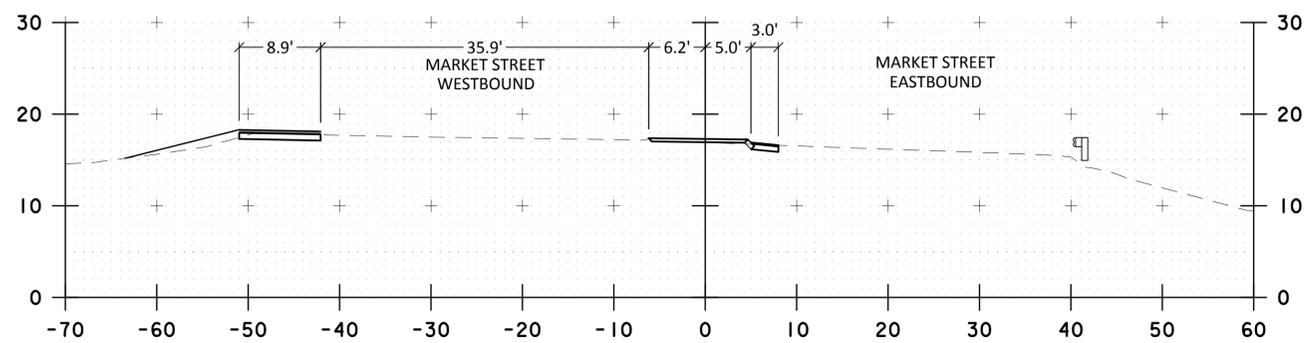


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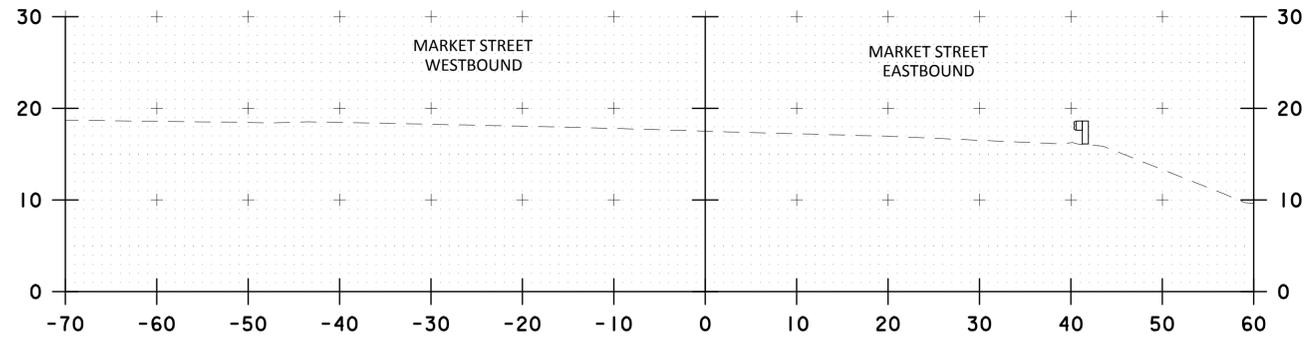
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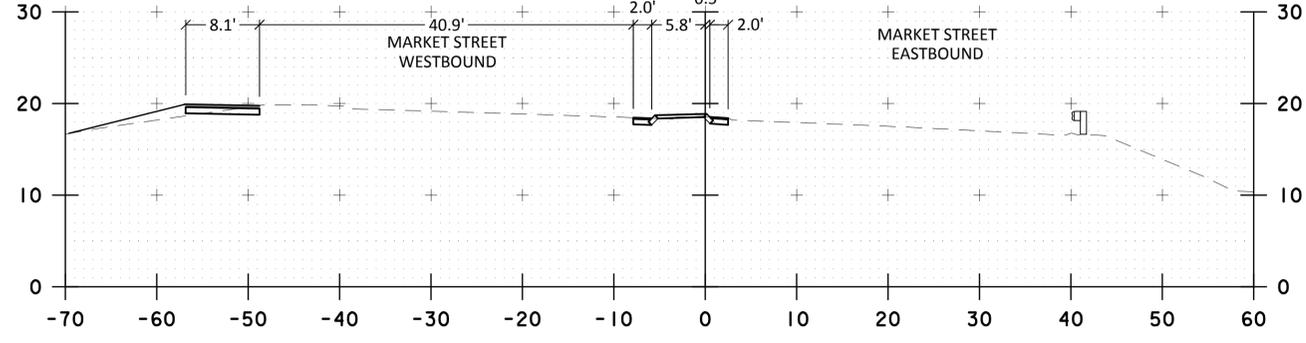
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 5



314+00



313+50



313+00

no.	revision	date	by



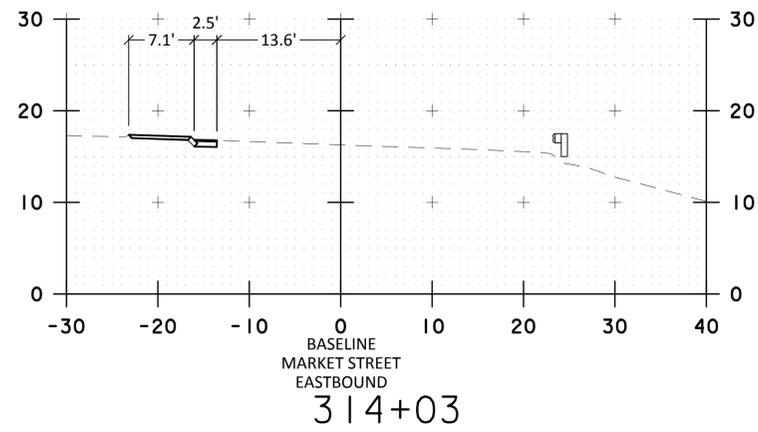
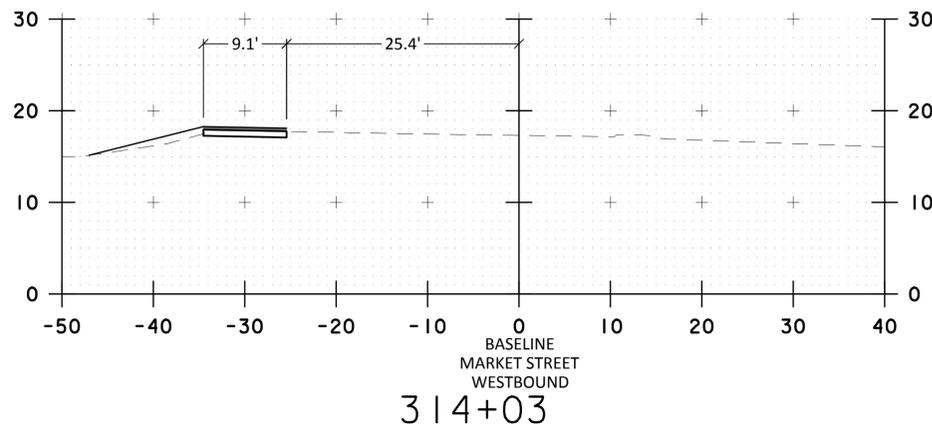
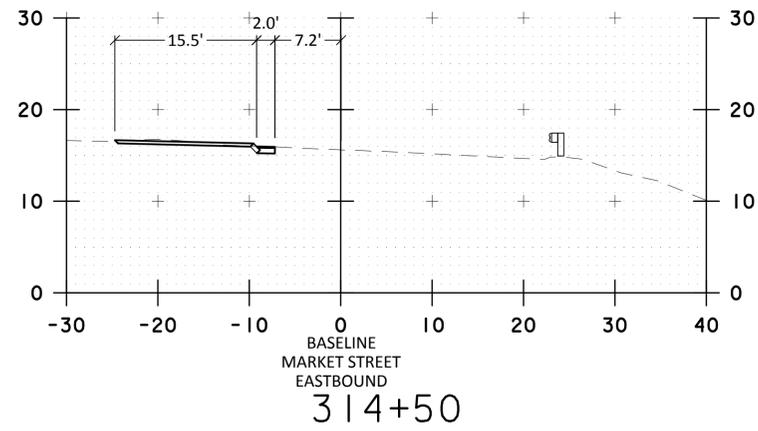
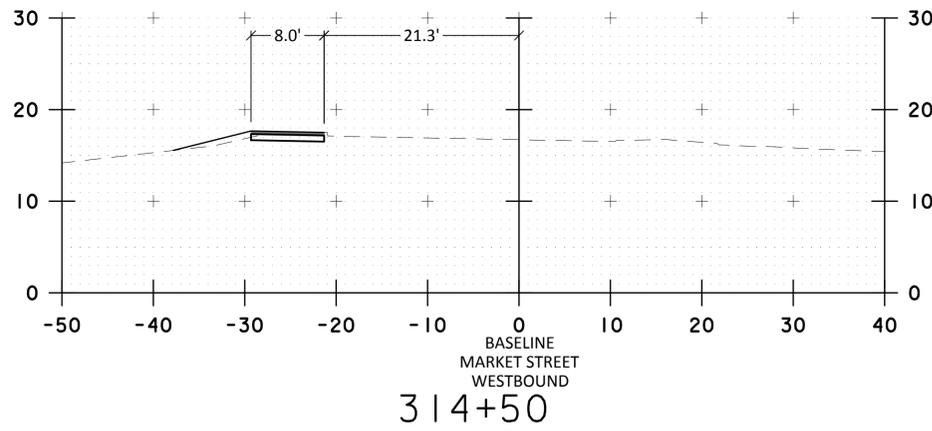
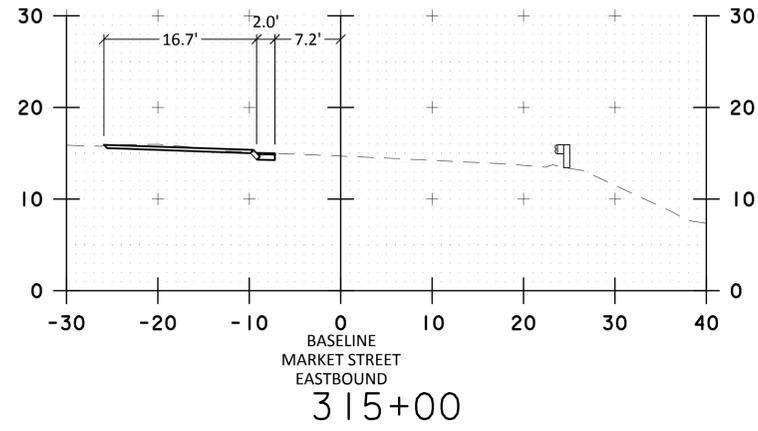
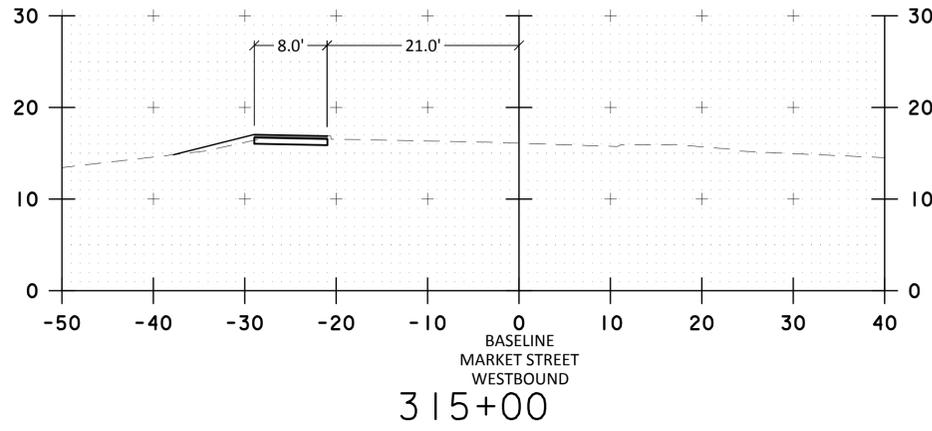
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MARKET STREET GATEWAY
CROSS SECTION SHEET 6

DATE: NOVEMBER 2015
DRAWING No.
X-06



no.	revision	date	by



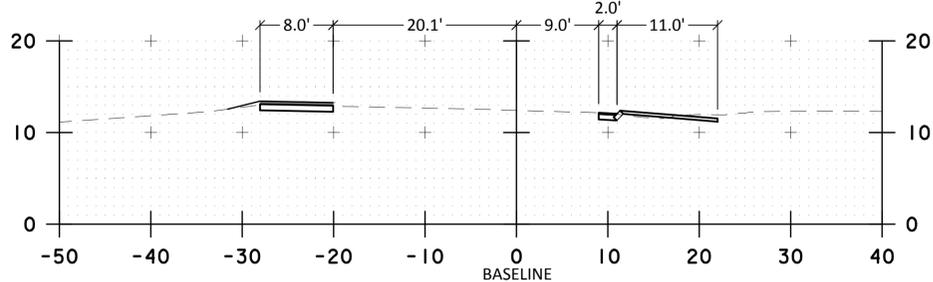
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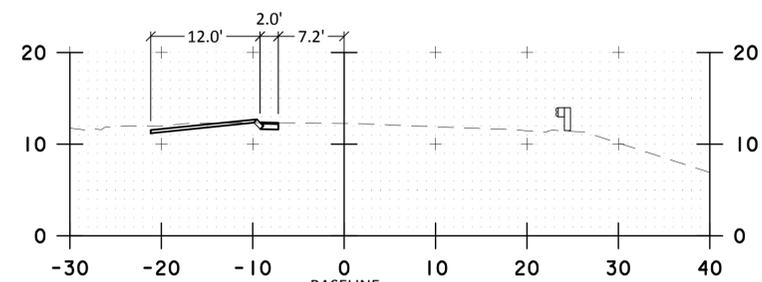
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 7

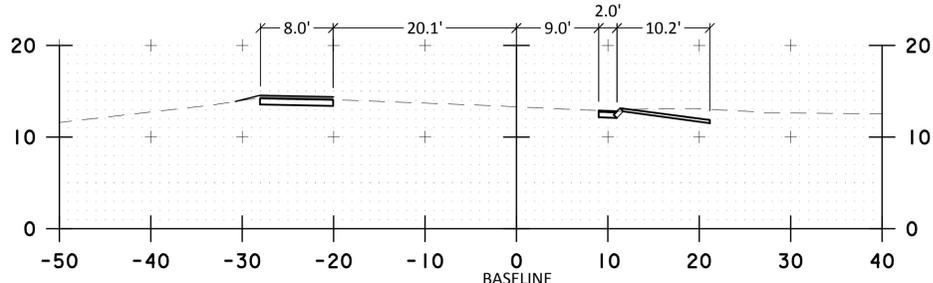
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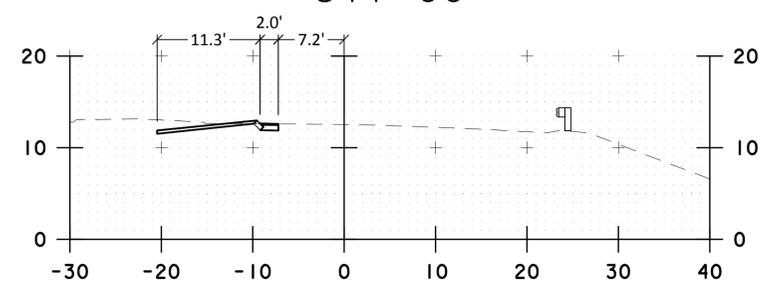
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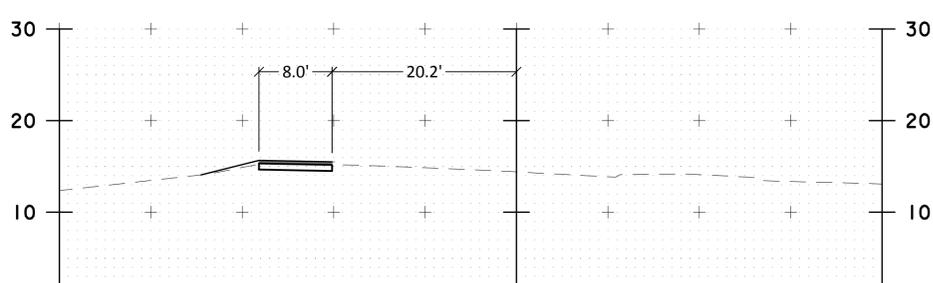
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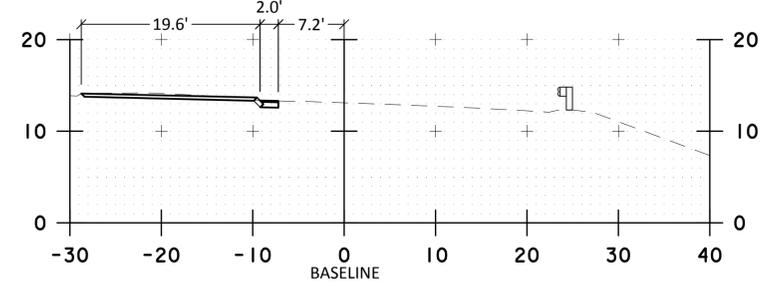
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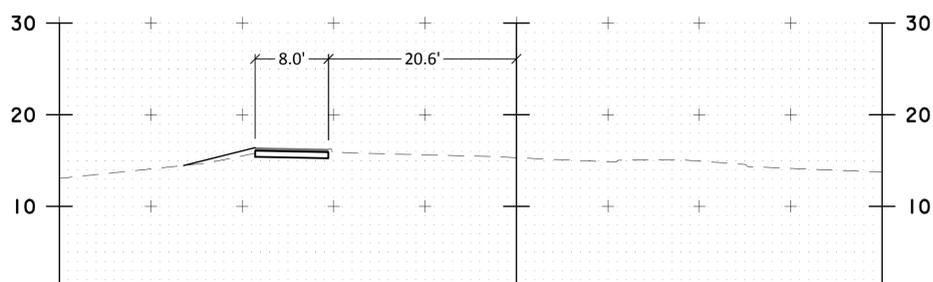
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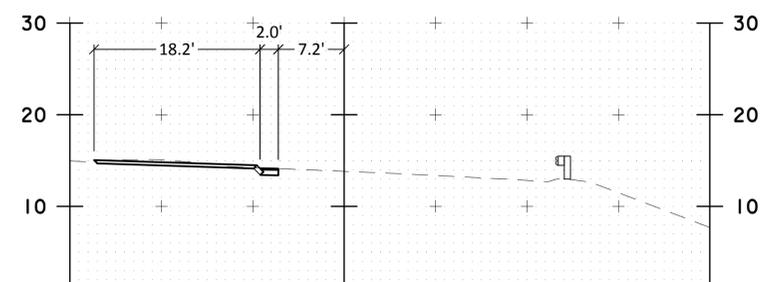
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MARKET STREET
WESTBOUND
316+00



BASELINE
MARKET STREET
EASTBOUND
316+00



BASELINE
MARKET STREET
WESTBOUND
315+50



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MARKET STREET
EASTBOUND
315+50

no.	revision	revision	date	by



PROJECT No. 13121	DESIGNED BY: ...	CHECKED BY: ...	SCALE: 1"=20'
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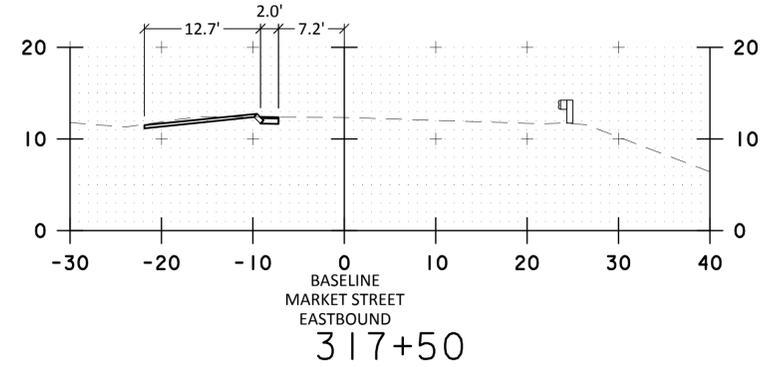
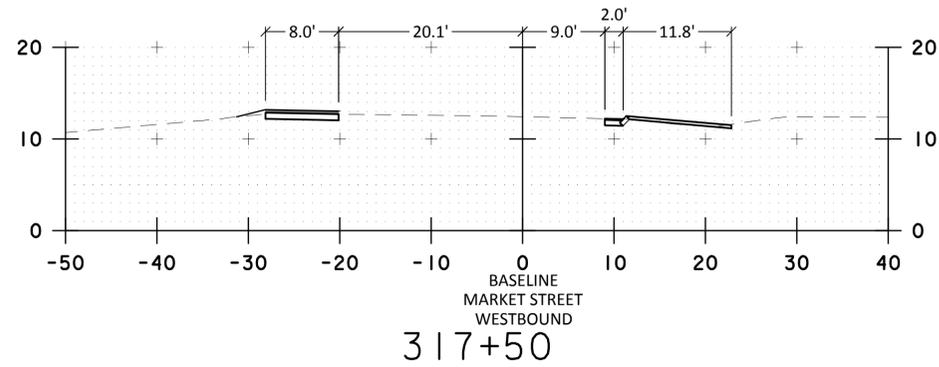
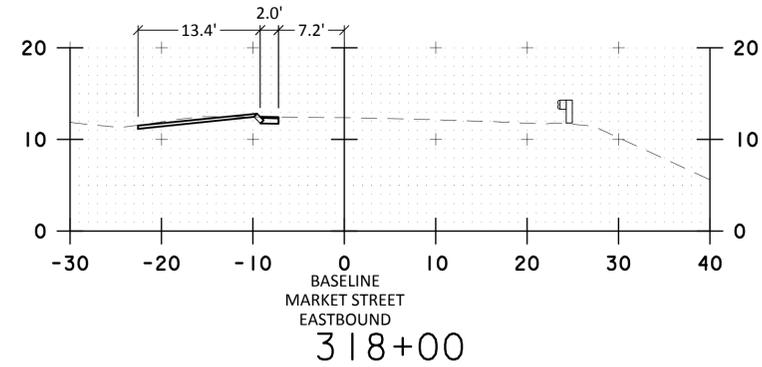
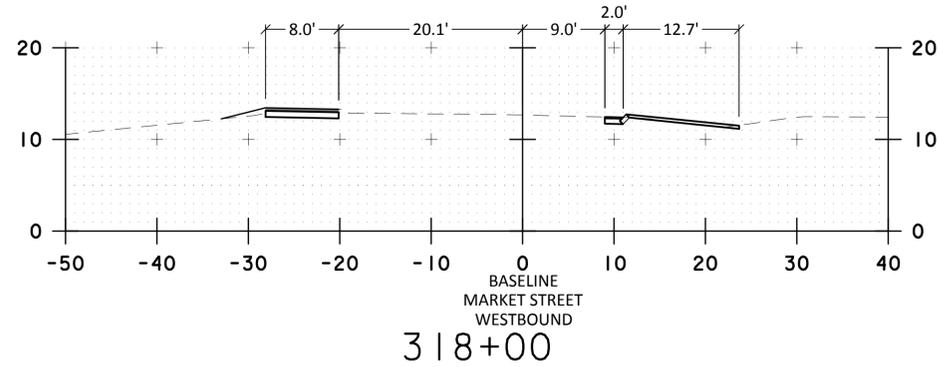
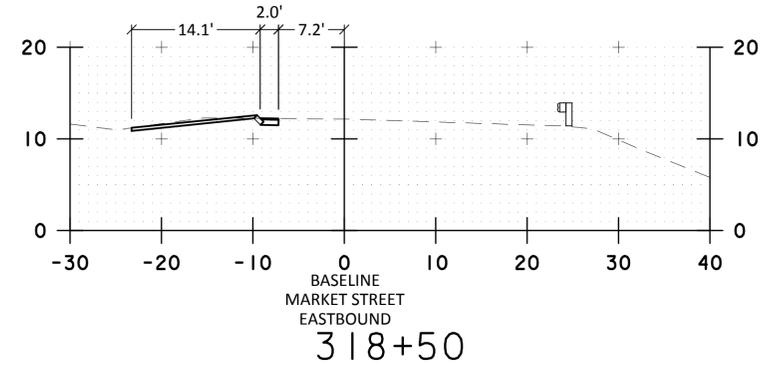
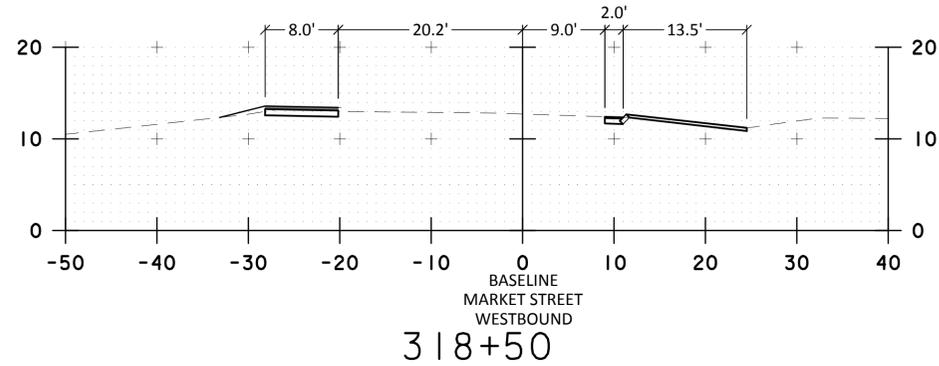
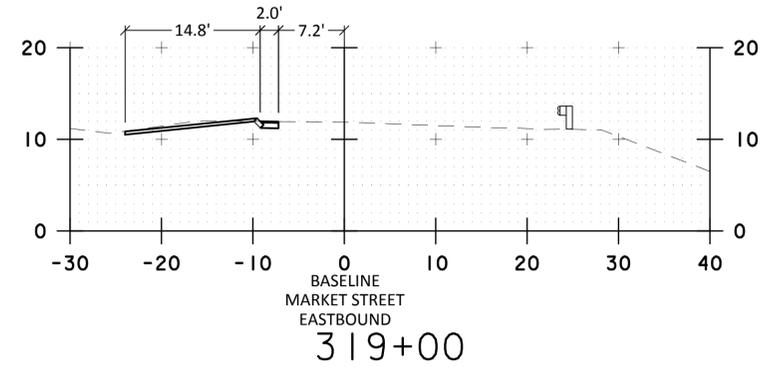
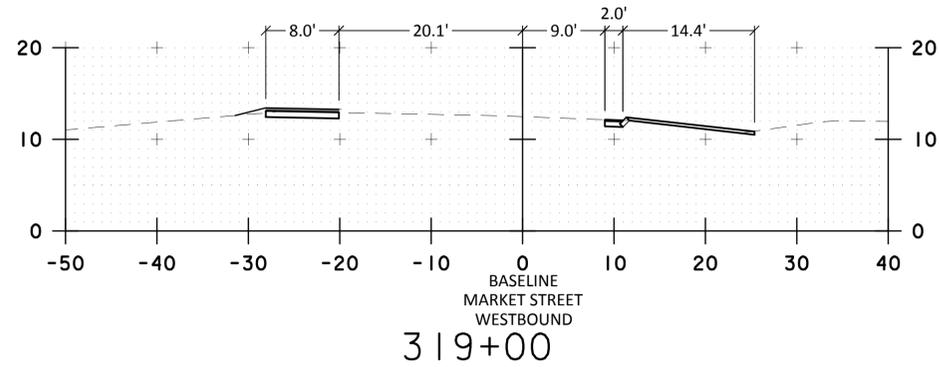
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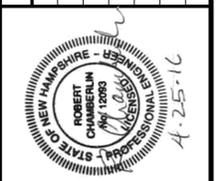
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 8

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X-08

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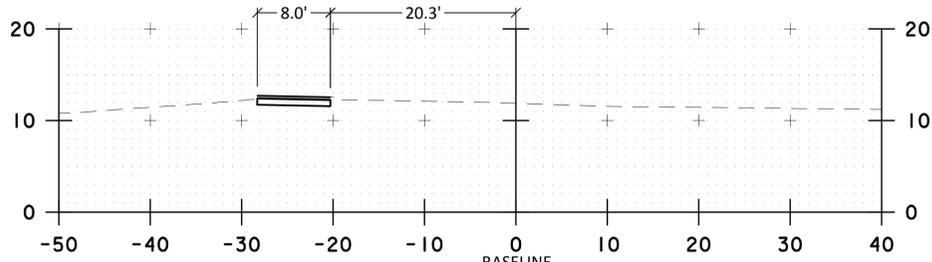


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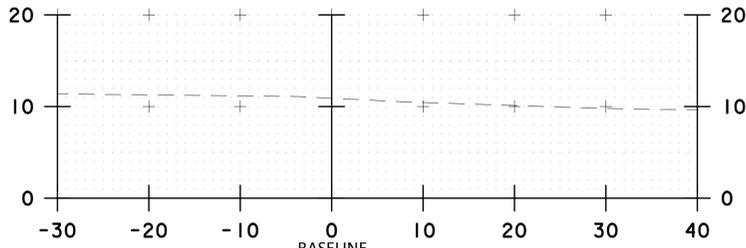
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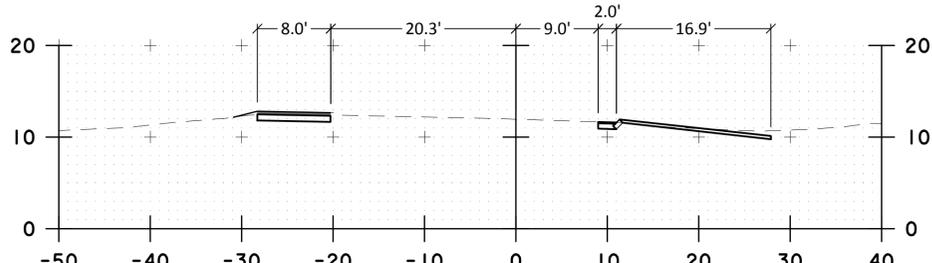
CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 9



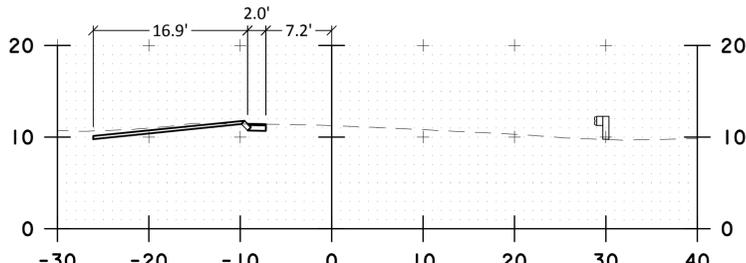
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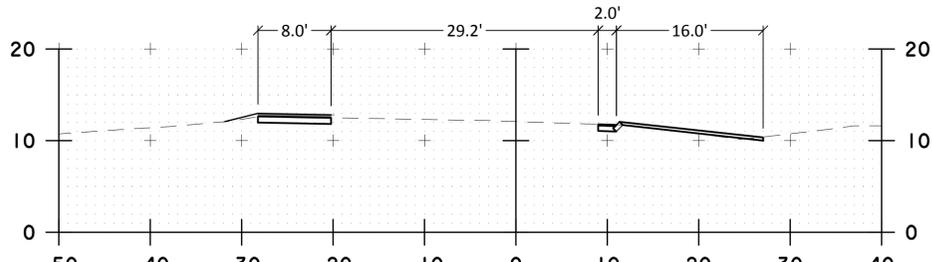
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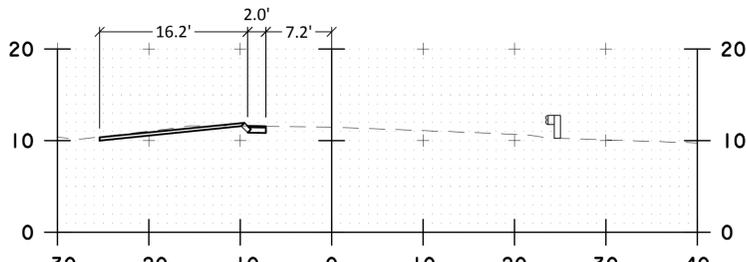
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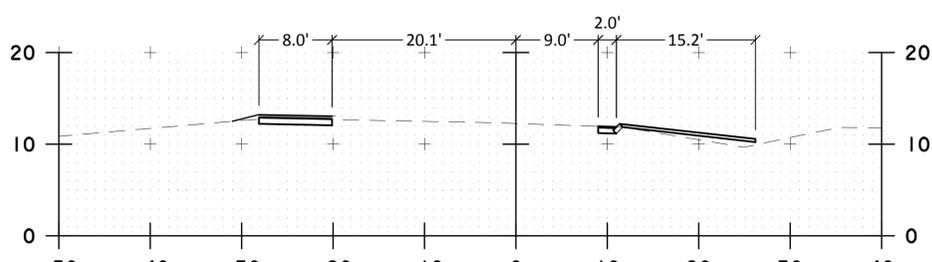
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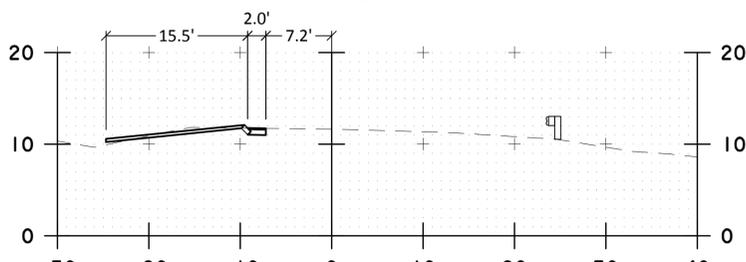
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BASELINE
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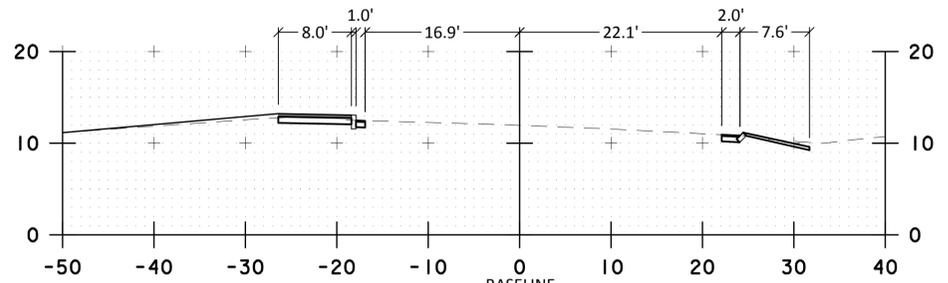


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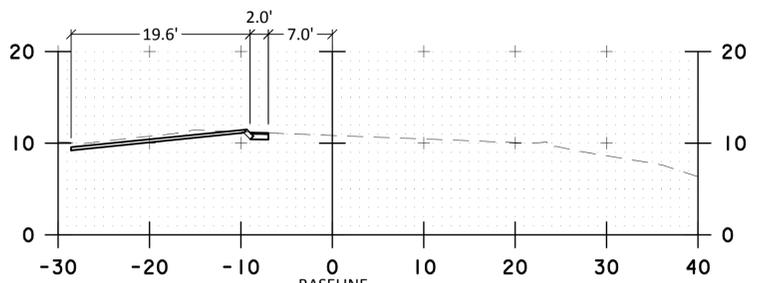
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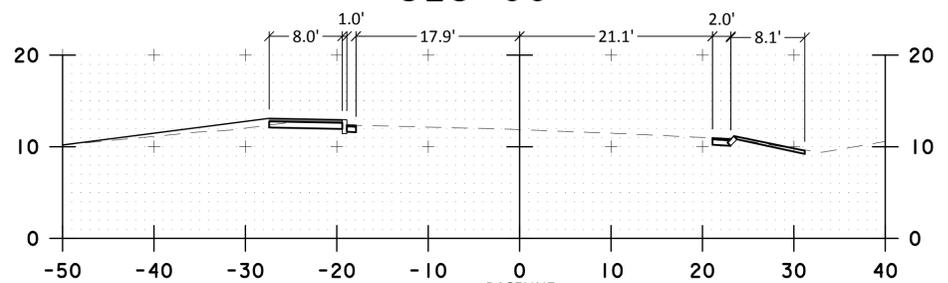
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MARKET STREET GATEWAY
CROSS SECTION SHEET 10



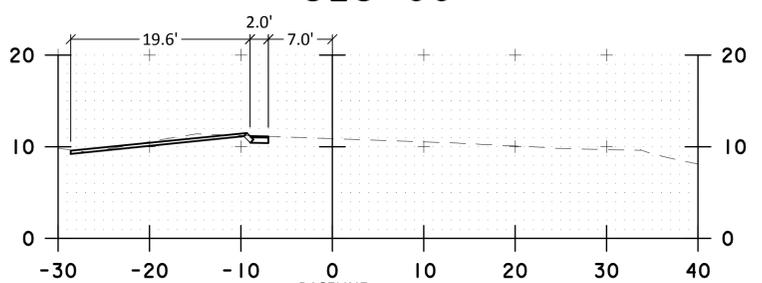
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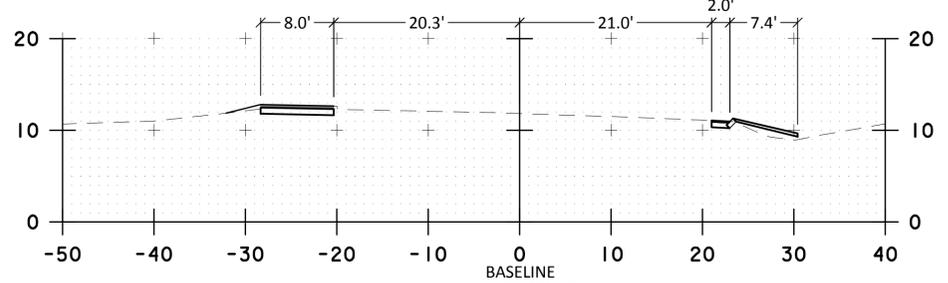
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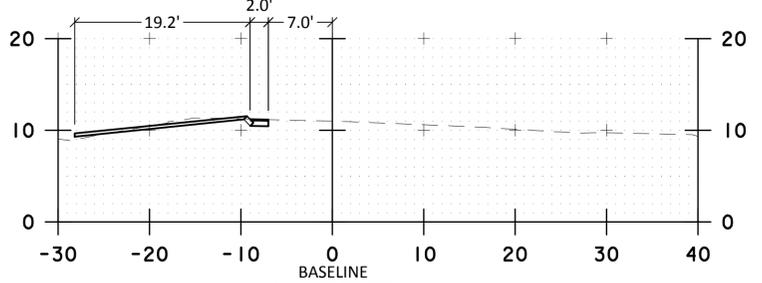
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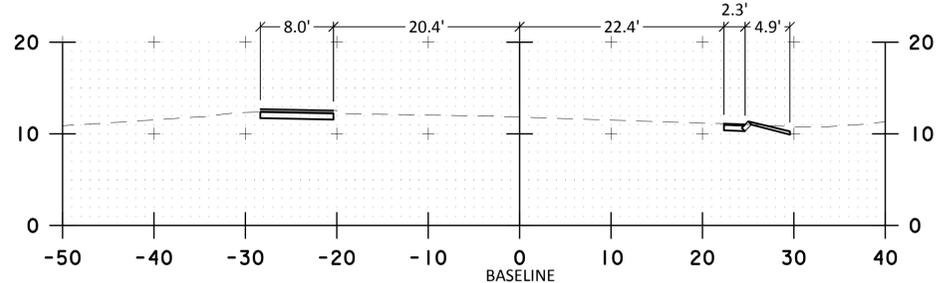
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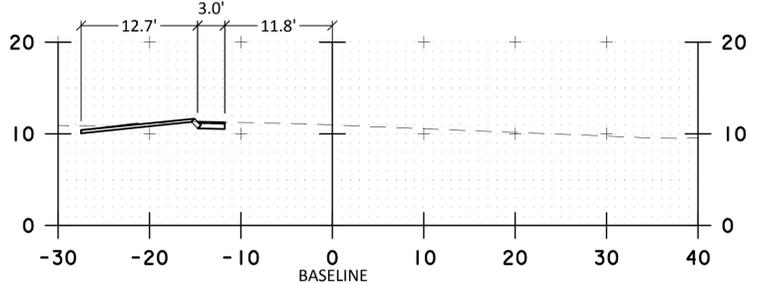
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WESTBOUND
322+00



BASELINE
MARKET STREET
EASTBOUND
322+00



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WESTBOUND
321+50



BASELINE
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321+50

no.	revision	revision	date	by

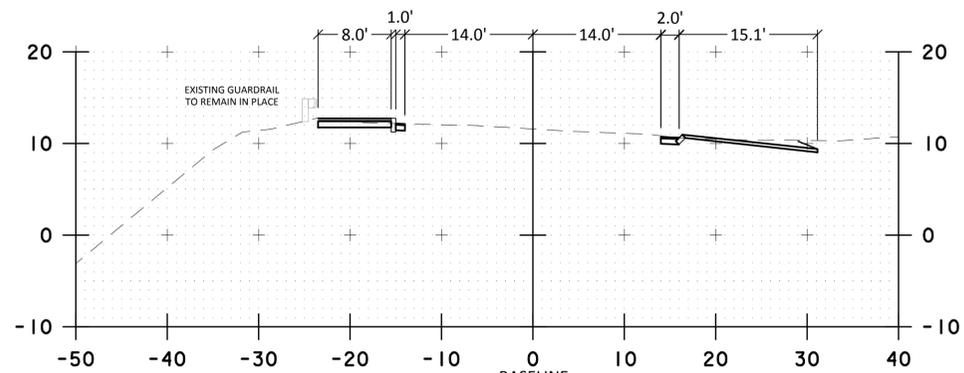


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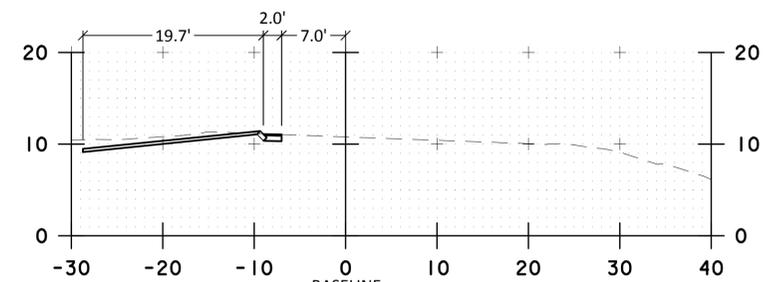
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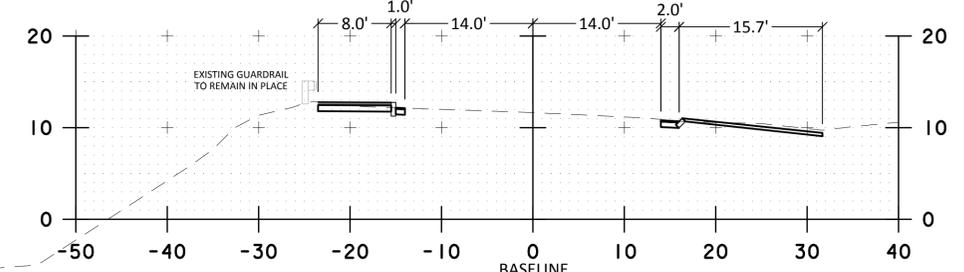
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MARKET STREET GATEWAY
CROSS SECTION SHEET 11



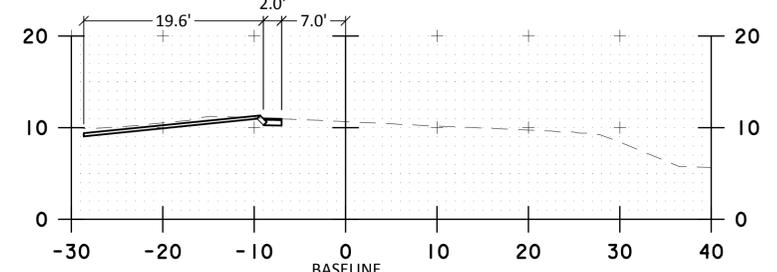
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325+00



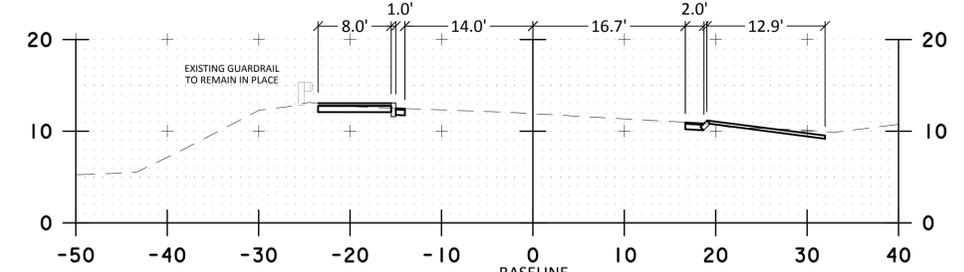
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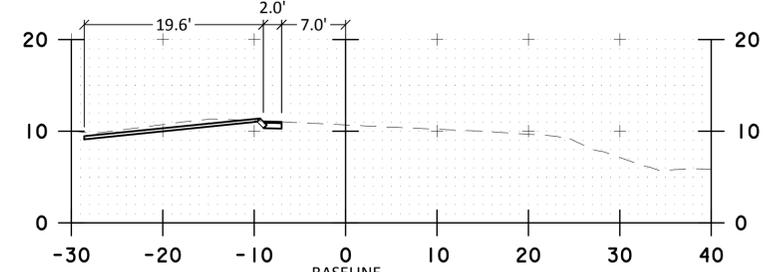
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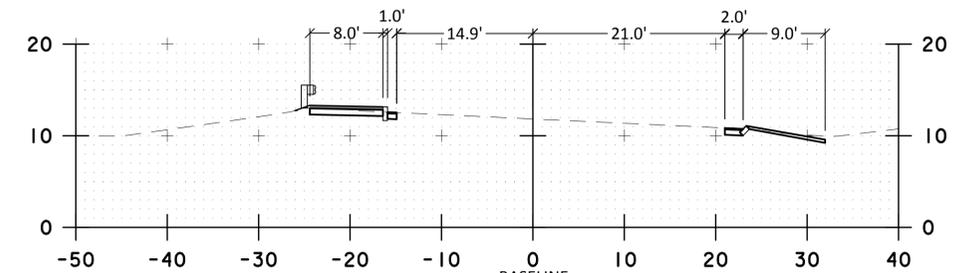
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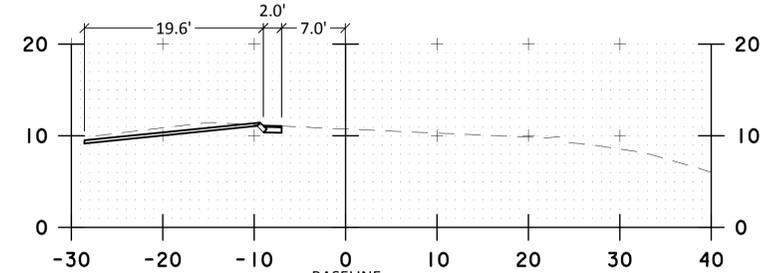
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MARKET STREET
WESTBOUND
324+00



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324+00



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MARKET STREET
WESTBOUND
323+50



BASELINE
MARKET STREET
EASTBOUND
323+50

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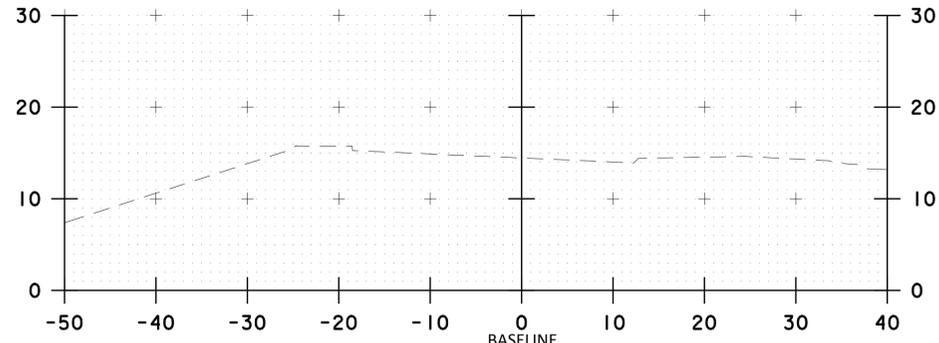
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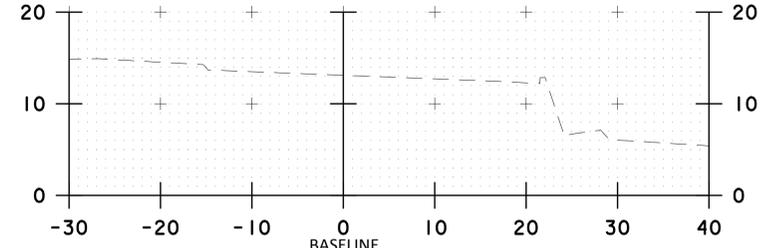
Richardson & Associates
Landscape Architects

CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 12

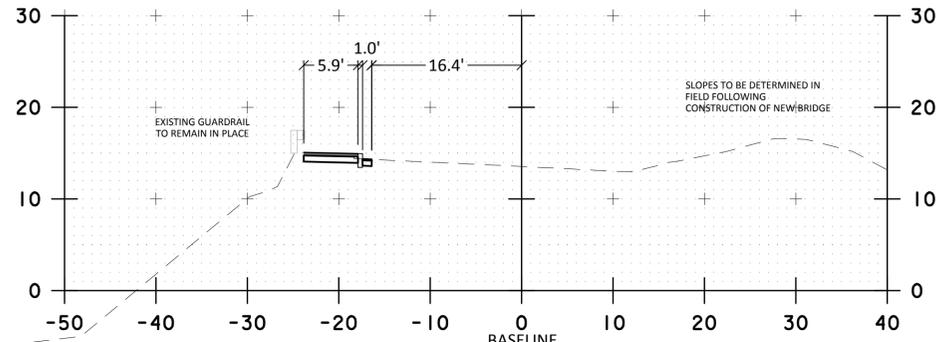
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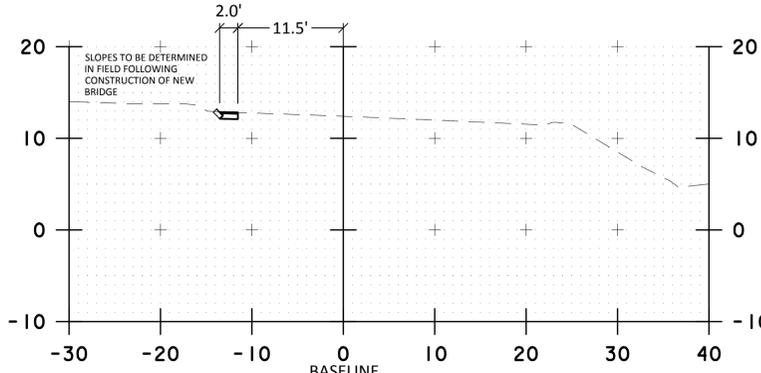
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MARKET STREET
WESTBOUND
327+00



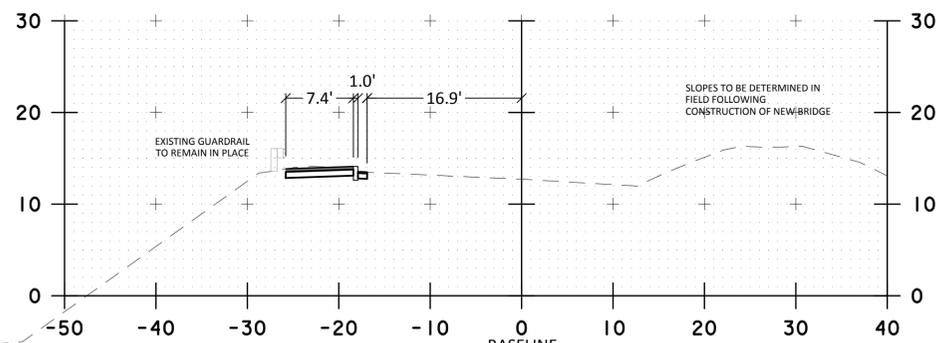
BASELINE
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EASTBOUND
327+00



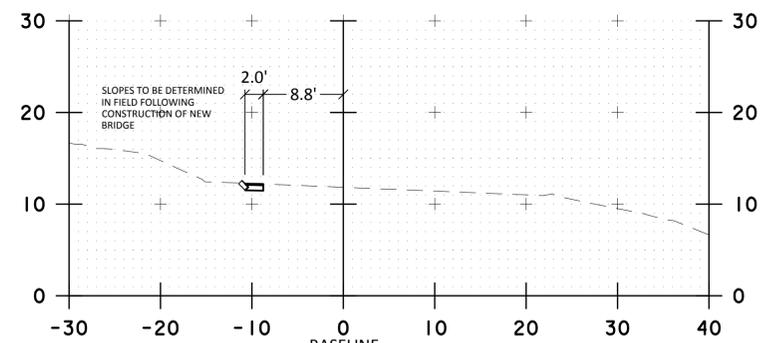
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WESTBOUND
326+50



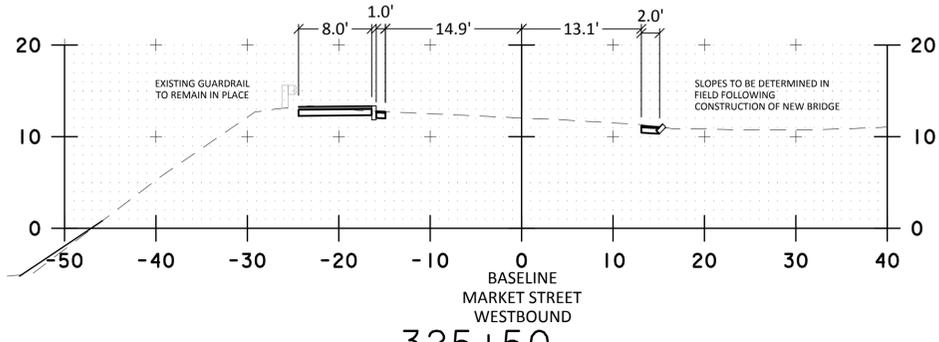
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EASTBOUND
326+50



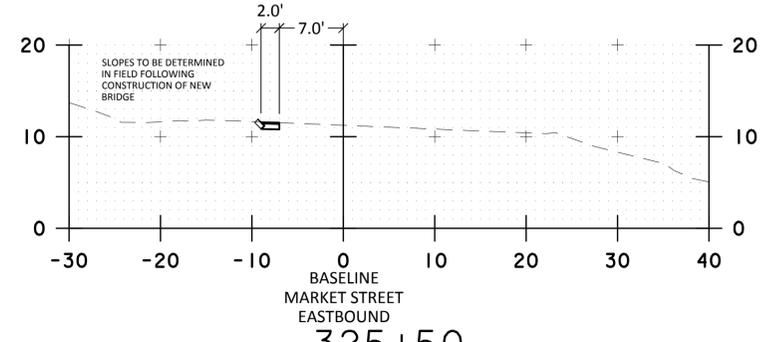
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MARKET STREET
WESTBOUND
325+50



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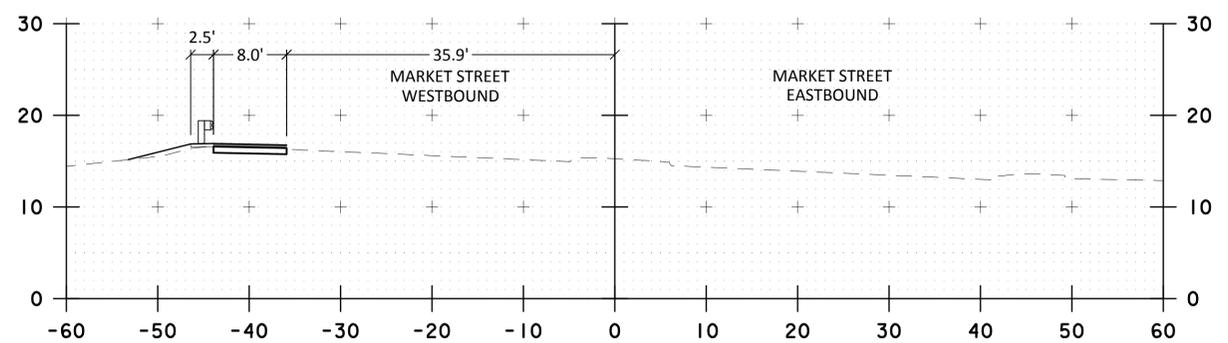
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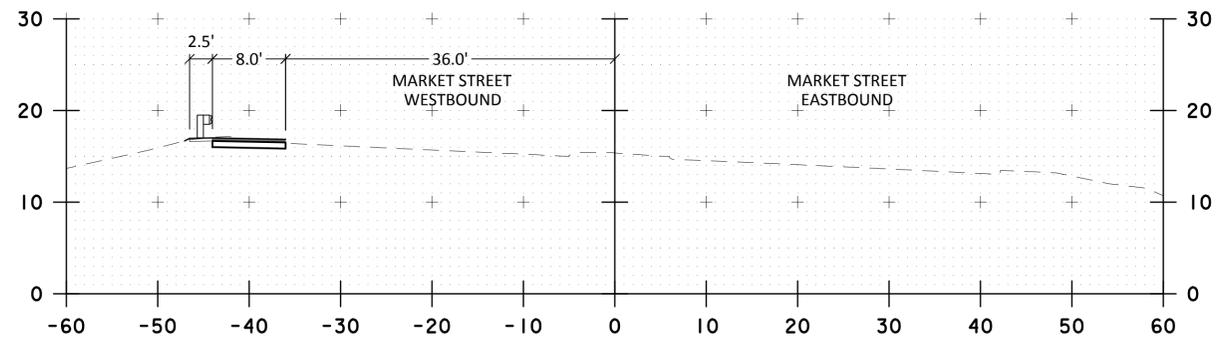
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CITY OF PORTSMOUTH, NH
MARKET STREET GATEWAY
CROSS SECTION SHEET 13

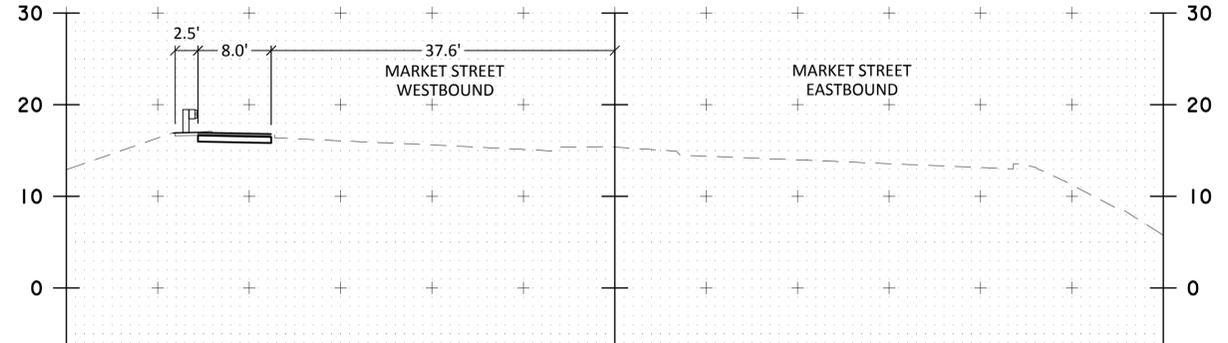
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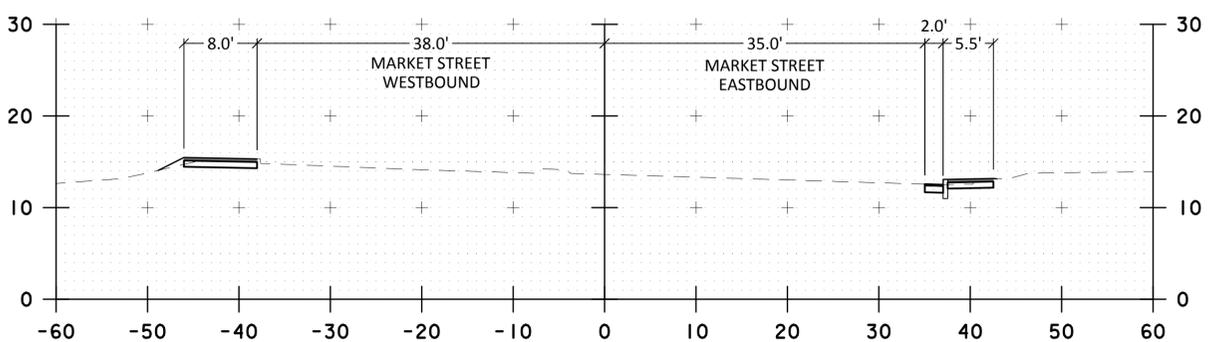
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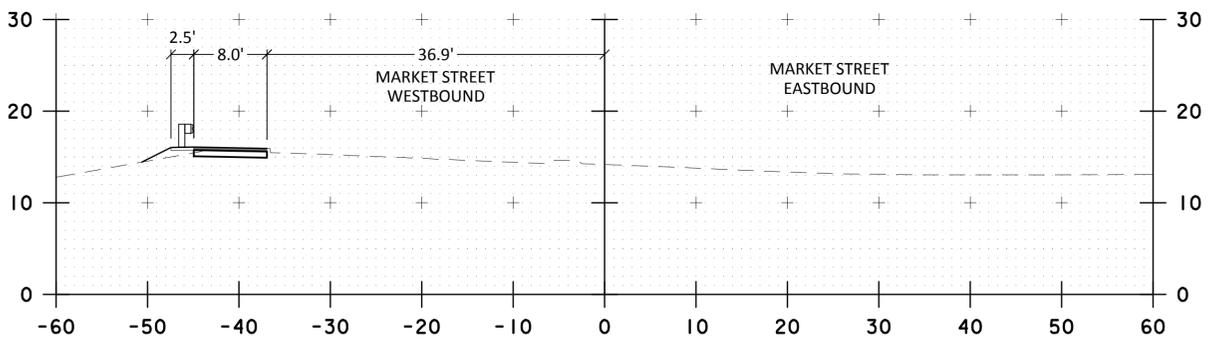
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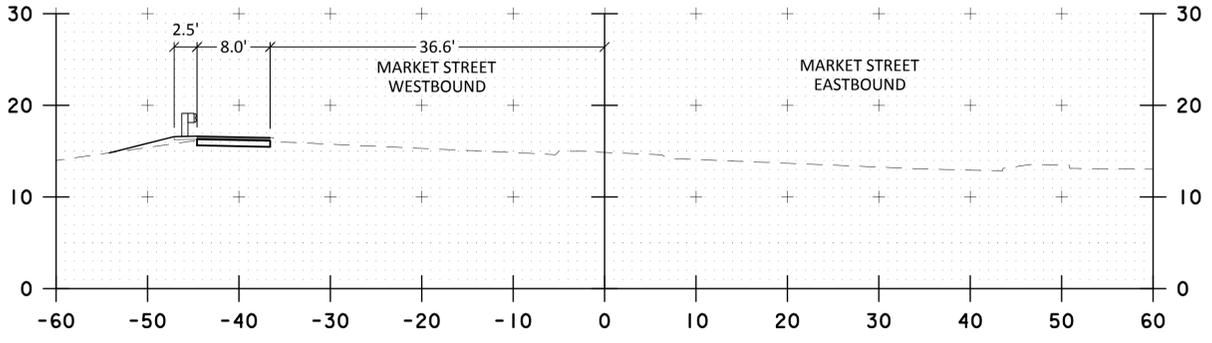
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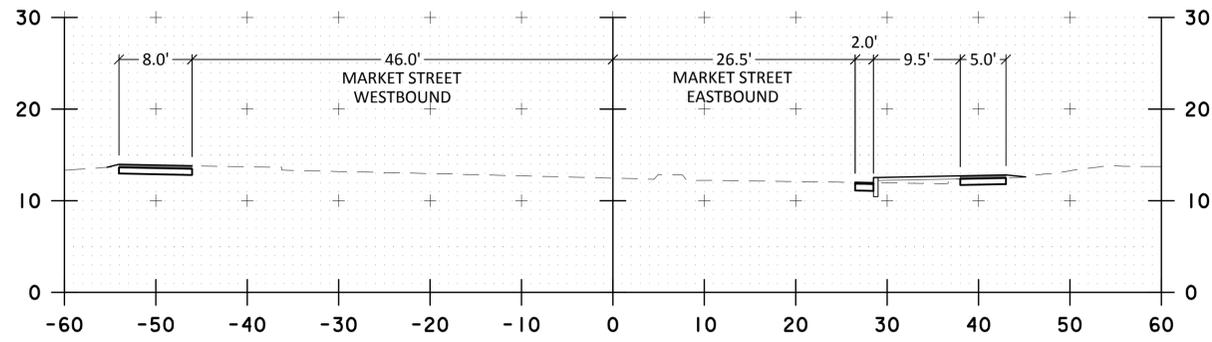
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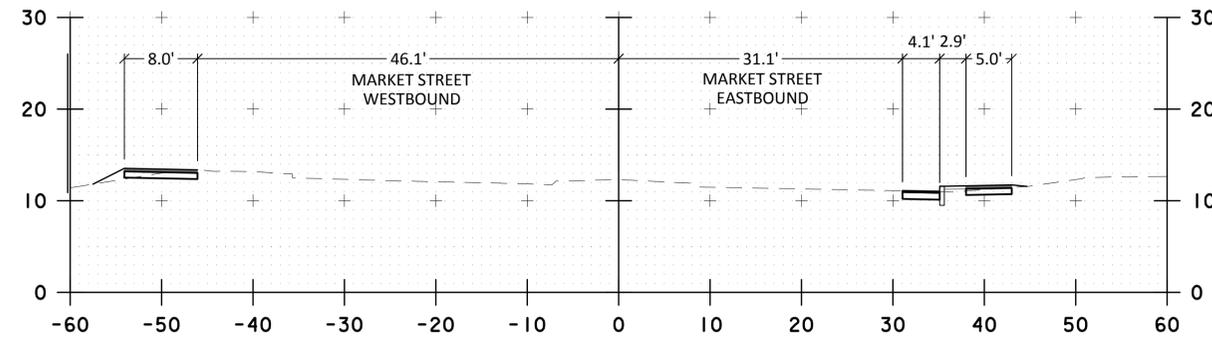
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 MARKET STREET GATEWAY
 CROSS SECTION SHEET 15

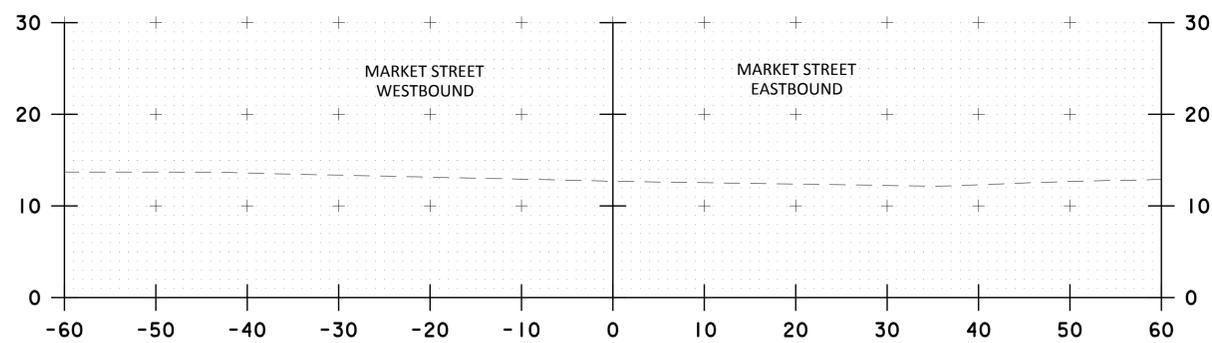
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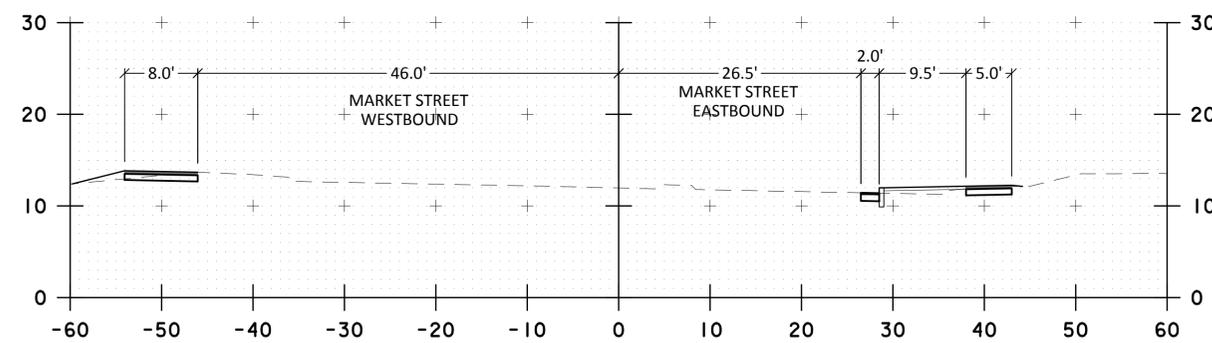
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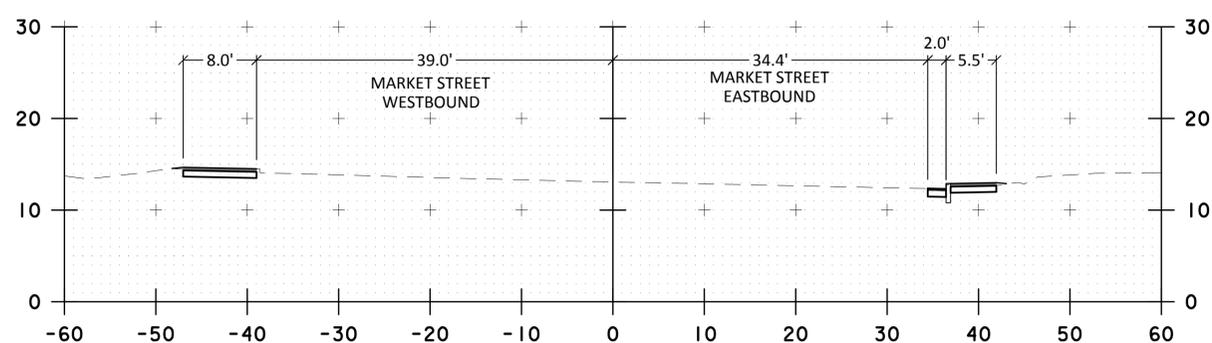
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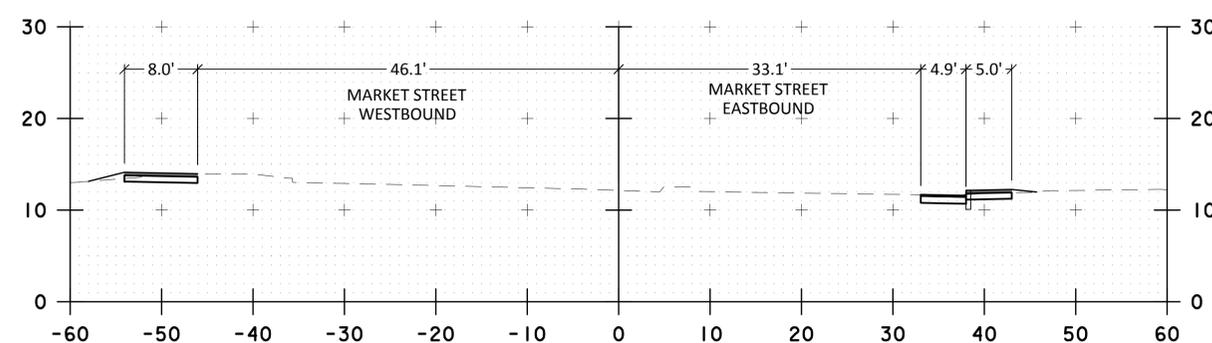
332+50



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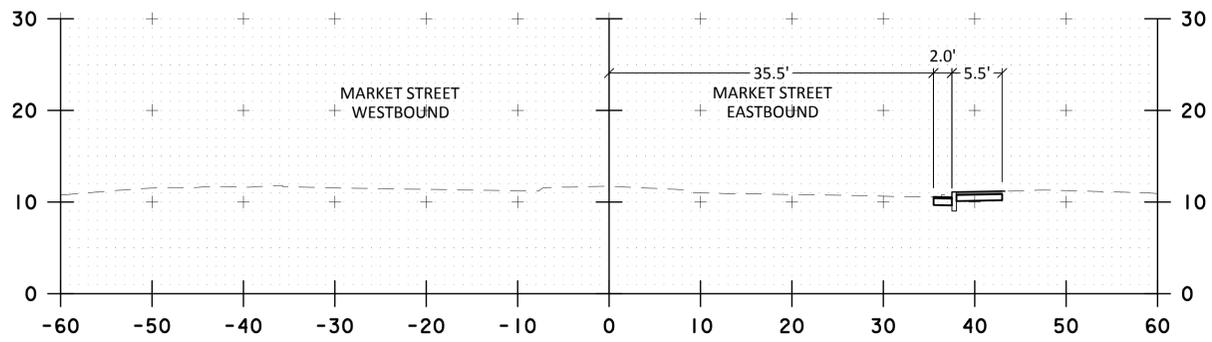
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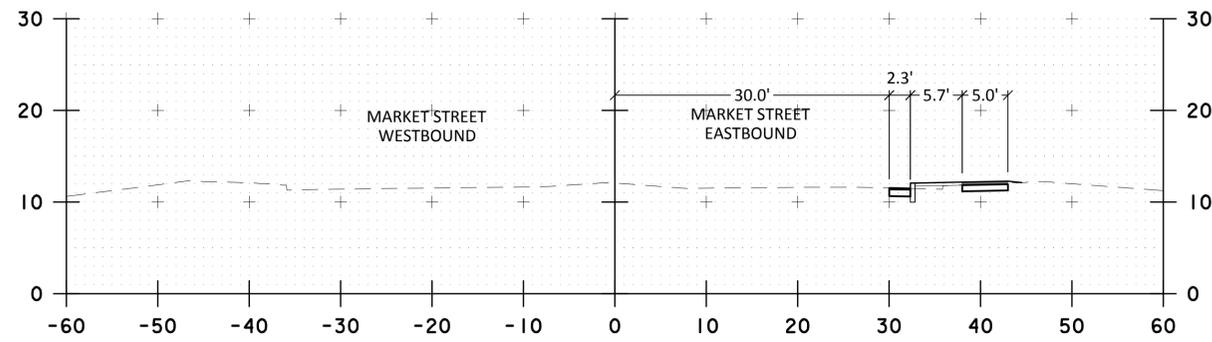
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CROSS SECTION SHEET 16

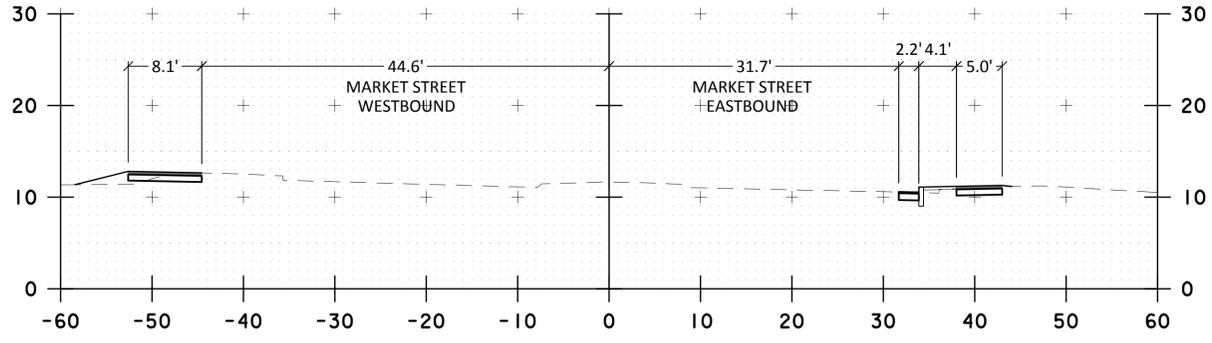
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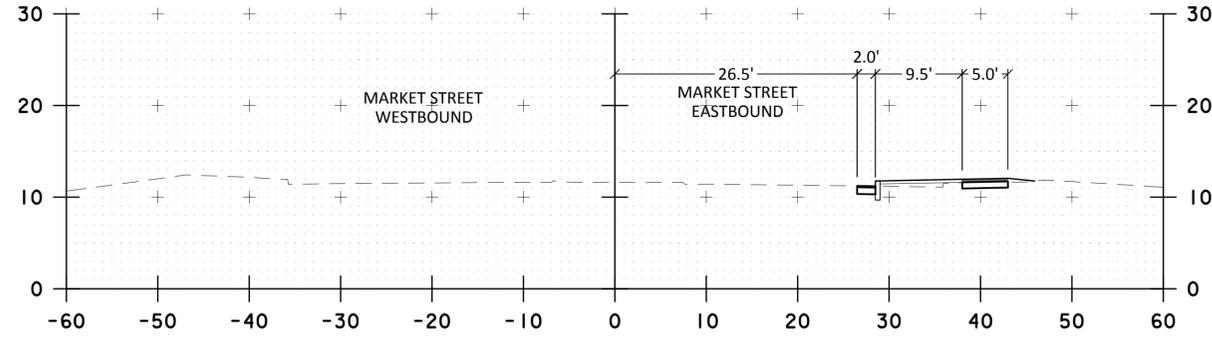
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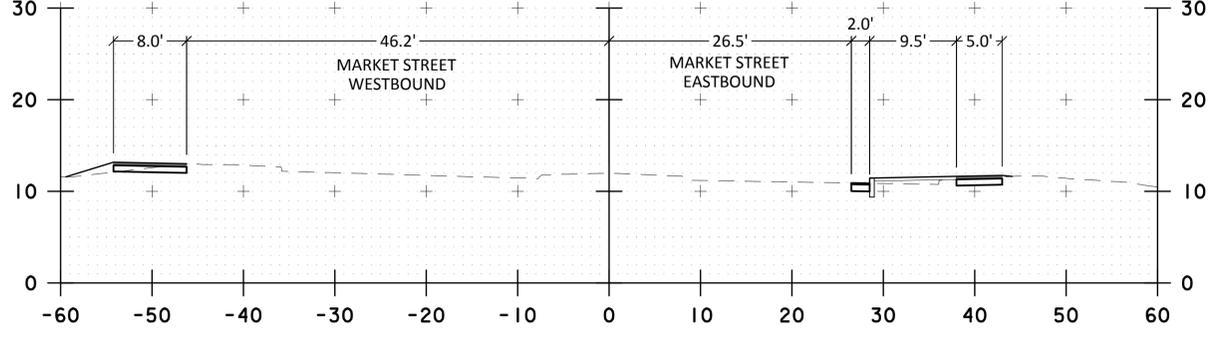
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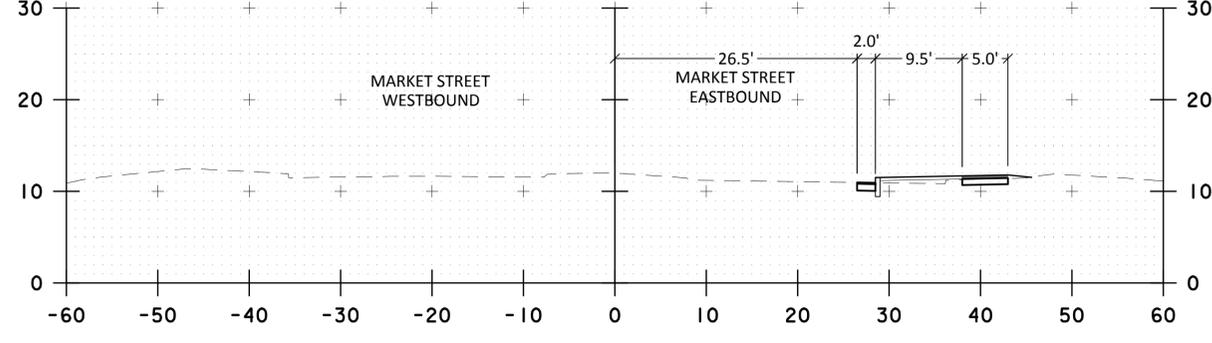
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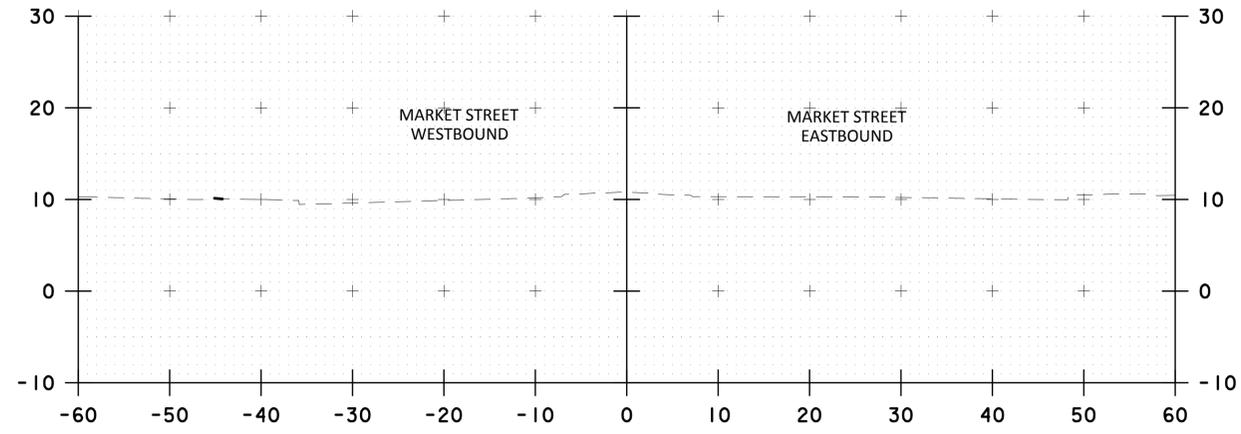


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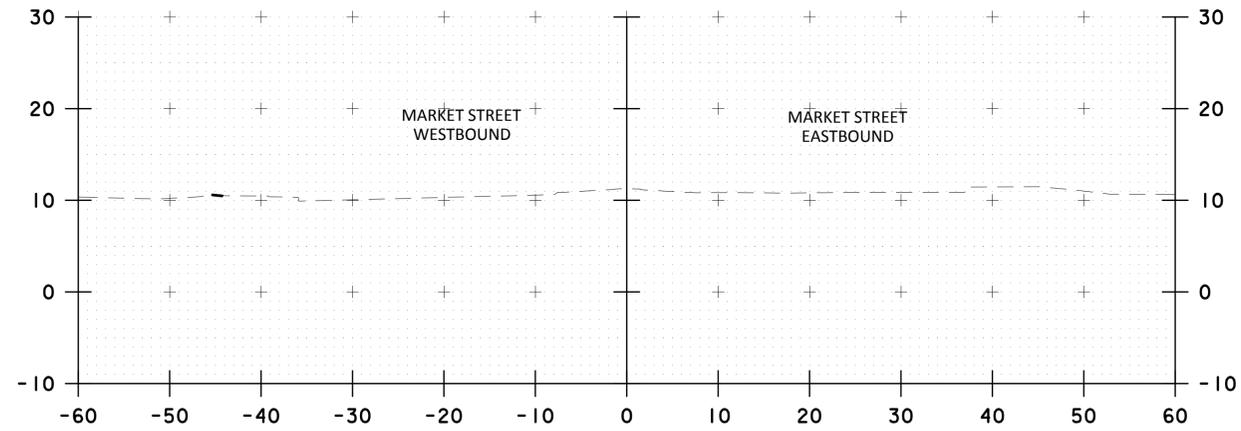
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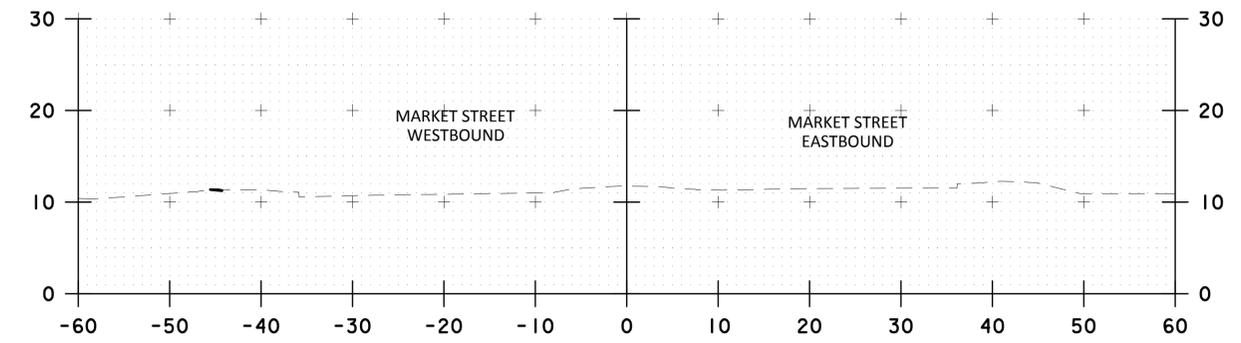
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CROSS SECTION SHEET 17



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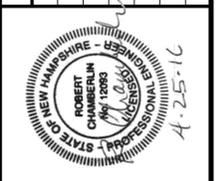


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CROSS SECTION SHEET 18

DATE: NOVEMBER 2015
DRAWING No.
X-18