COAKLEY ROAD & COTAGE ST SIDEWALK CONNECTION

PROJECT #7153 BID #07-13



FALL 2012

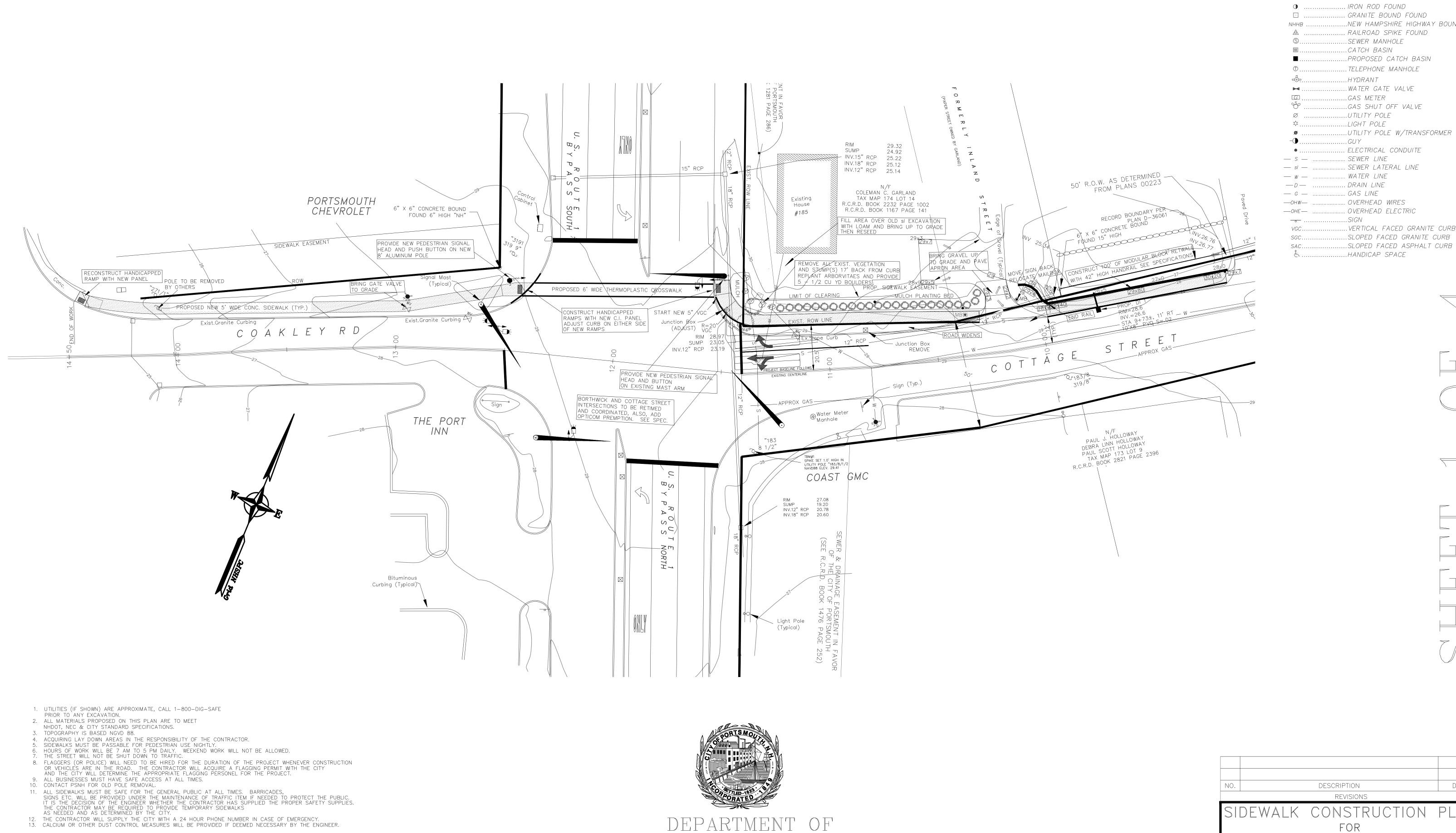
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH

SURVEY PREPARED BY:

North
W EASTERLY

v SURVEYING. Inc.

SURVEYORS IN N.H. & MAINE 191 STATE ROAD, SUITE #1 (207) 439-6333 KITTERY, MAINE 03904



PUBLIC WORKS

CITY OF PORTSMOUTH, NH

LEGEND:

GRANITE BOUND FOUND

..NEW HAMPSHIRE HIGHWAY BOUND

..PROPOSED CATCH BASIN

..UTILITY POLE W/TRANSFORMER

..VERTICAL FACED GRANITE CURB ..SLOPED FACED GRANITE CURB

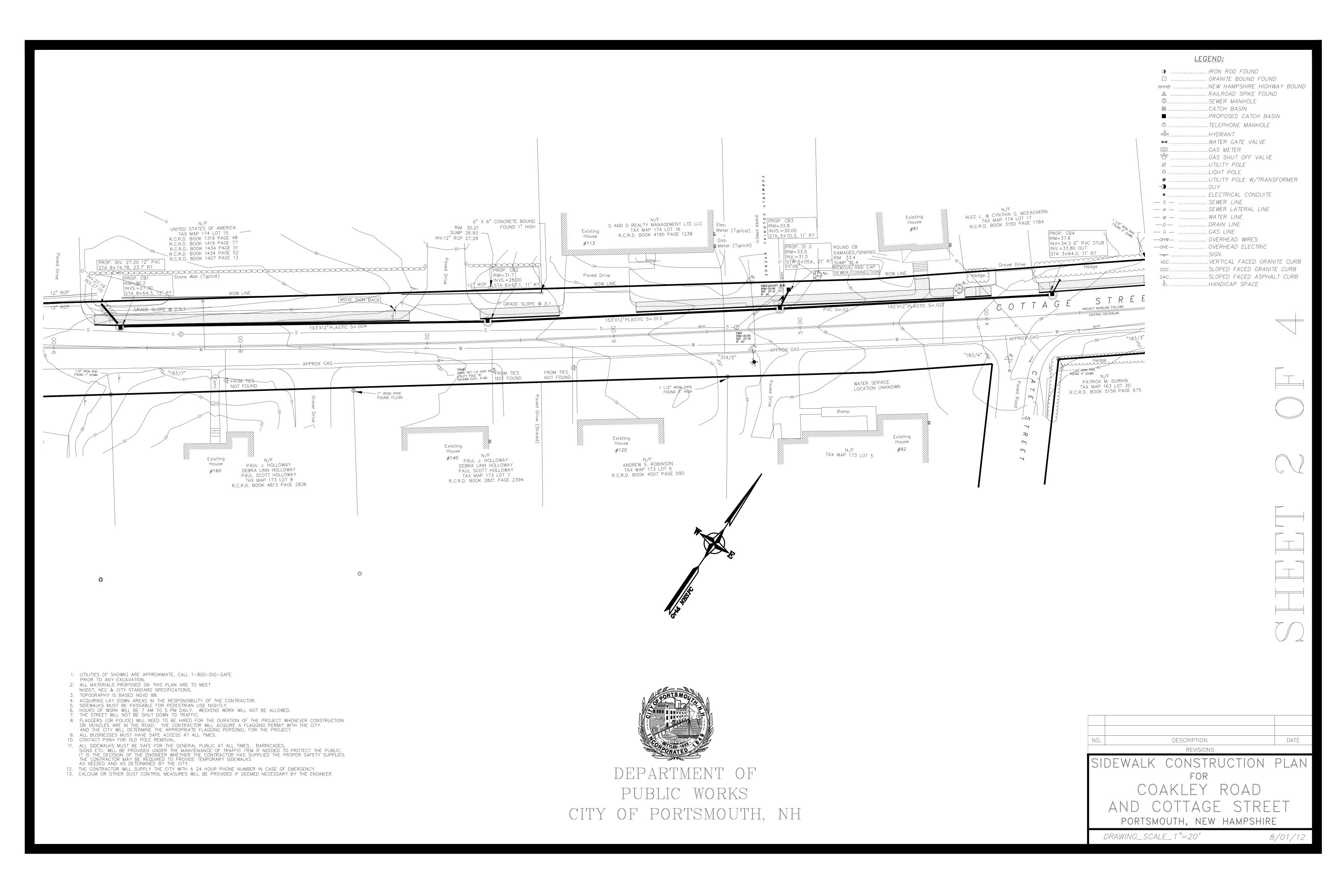
..HANDICAP SPACE

DATE

FOR COAKLEY ROAD AND COTTAGE STREET PORTSMOUTH, NEW HAMPSHIRE

DRAWING_SCALE_1"=20'

8/01/12



- 1. UTILITIES (IF SHOWN) ARE APPROXIMATE, CALL 1-800-DIG-SAFE
- PRIOR TO ANY EXCAVATION. 2. ALL MATERIALS PROPOSED ON THIS PLAN ARE TO MEET NHDOT, NEC & CITY STANDARD SPECIFICATIONS.
- 3. TOPOGRAPHY IS BASED NGVD 88.
- 4. ACQUIRING LAY DOWN AREAS IN THE RESPONSIBILITY OF THE CONTRACTOR.
 5. SIDEWALKS MUST BE PASSABLE FOR PEDESTRIAN USE NIGHTLY.
 6. HOURS OF WORK WILL BE 7 AM TO 5 PM DAILY. WEEKEND WORK WILL NOT BE ALLOWED.
 7. THE STREET WILL NOT BE SHUT DOWN TO TRAFFIC.
- 8. FLAGGERS (OR POLICE) WILL NEED TO BE HIRED FOR THE DURATION OF THE PROJECT WHENEVER CONSTRUCTION OR VEHICLES ARE IN THE ROAD. THE CONTRACTOR WILL ACQUIRE A FLAGGING PERMIT WITH THE CITY AND THE CITY WILL DETERMINE THE APPROPRIATE FLAGGING PERSONEL FOR THE PROJECT.
- 9. ALL BUSINESSES MUST HAVE SAFE ACCESS AT ALL TIMES.
- 10. CONTACT PSNH FOR OLD POLE REMOVAL.
- 11. ALL SIDEWALKS MUST BE SAFE FOR THE GENERAL PUBLIC AT ALL TIMES. BARRICADES,
 SIGNS ETC. WILL BE PROVIDED UNDER THE MAINTENANCE OF TRAFFIC ITEM IF NEEDED TO PROTECT THE PUBLIC.
 IT IS THE DECISION OF THE ENGINEER WHETHER THE CONTRACTOR HAS SUPPLIED THE PROPER SAFETY SUPPLIES.
 THE CONTRACTOR MAY BE REQUIRED TO PROVIDE TEMPORARY SIDEWALKS
 AS NEEDED AND AS DETERMINED BY THE CITY.
- 12. THE CONTRACTOR WILL SUPPLY THE CITY WITH A 24 HOUR PHONE NUMBER IN CASE OF EMERGENCY.
 13. CALCIUM OR OTHER DUST CONTROL MEASURES WILL BE PROVIDED IF DEEMED NECESSARY BY THE ENGINEER.



DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH LEGEND:

.. IRON ROD FOUND .. GRANITE BOUND FOUND ...NEW HAMPSHIRE HIGHWAY BOUND .. RAILROAD SPIKE FOUND ...SEWER MANHOLE ..CATCH BASIN ..PROPOSED CATCH BASIN .. TELEPHONE MANHOLE ..HYDRANT .. WATER GATE VALVE ..GAS METER ...GAS SHUT OFF VALVE ...UTILITY POLE

...LIGHT POLE ...UTILITY POLE W/TRANSFORMER

..GUY .. ELECTRICAL CONDUITE

.. SEWER LINE .. SEWER LATERAL LINE

.. WATER LINE — D — DRAIN LINE — G — GAS LINE

.. OVERHEAD WIRES .. OVERHEAD ELECTRIC ...SIGN

..VERTICAL FACED GRANITE CURB ...SLOPED FACED GRANITE CURB ..SLOPED FACED ASPHALT CURB

..HANDICAP SPACE

FOR COAKLEY ROAD AND COTTAGE STREET PORTSMOUTH, NEW HAMPSHIRE

DESCRIPTION

REVISIONS

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STANDARD MANHOLE NOTES:

- 1. BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE.
- 2. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
- 3. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTER LINE OF THE PIPES. SHELVES SHALL BE CONSTRUCTED TO AN ELEVATION OF 1/2 THE PIPE DIA. AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL.
- 4. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. LETTER "D" OR WORD "DRAIN", IN 3-INCH LETTERS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
- 5. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33. STONE SIZE NO. 67.
 - 100% PASSING 1 INCH SCREEN 0-10% PASSING #4 SIEVE
 - 90-100% PASSING 3/4 INCH SCREEN 0- 5% PASSING #8 SIEVE
- 20- 55% PASSING 3/8 INCH SCREEN

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.

6. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE IS LESS THAN 5 FEET, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H-20 LOADS MAY BE USED.

TRENCH NOTES - STORM DRAIN

1. <u>BEDDING</u>

BEDDING FOR PIPES SHALL CONSIST OF PREPARING THE BOTTOM OF THE TRENCH TO SUPPORT THE ENTIRE LENGTH OF THE PIPE AT A UNIFORM SLOPE AND ALIGNMENT. CRUSHED STONE SHALL BE USED TO BED THE PIPE TO THE ELEVATION SHOWN ON THE DRAWINGS.

2. <u>COMPACTION:</u>

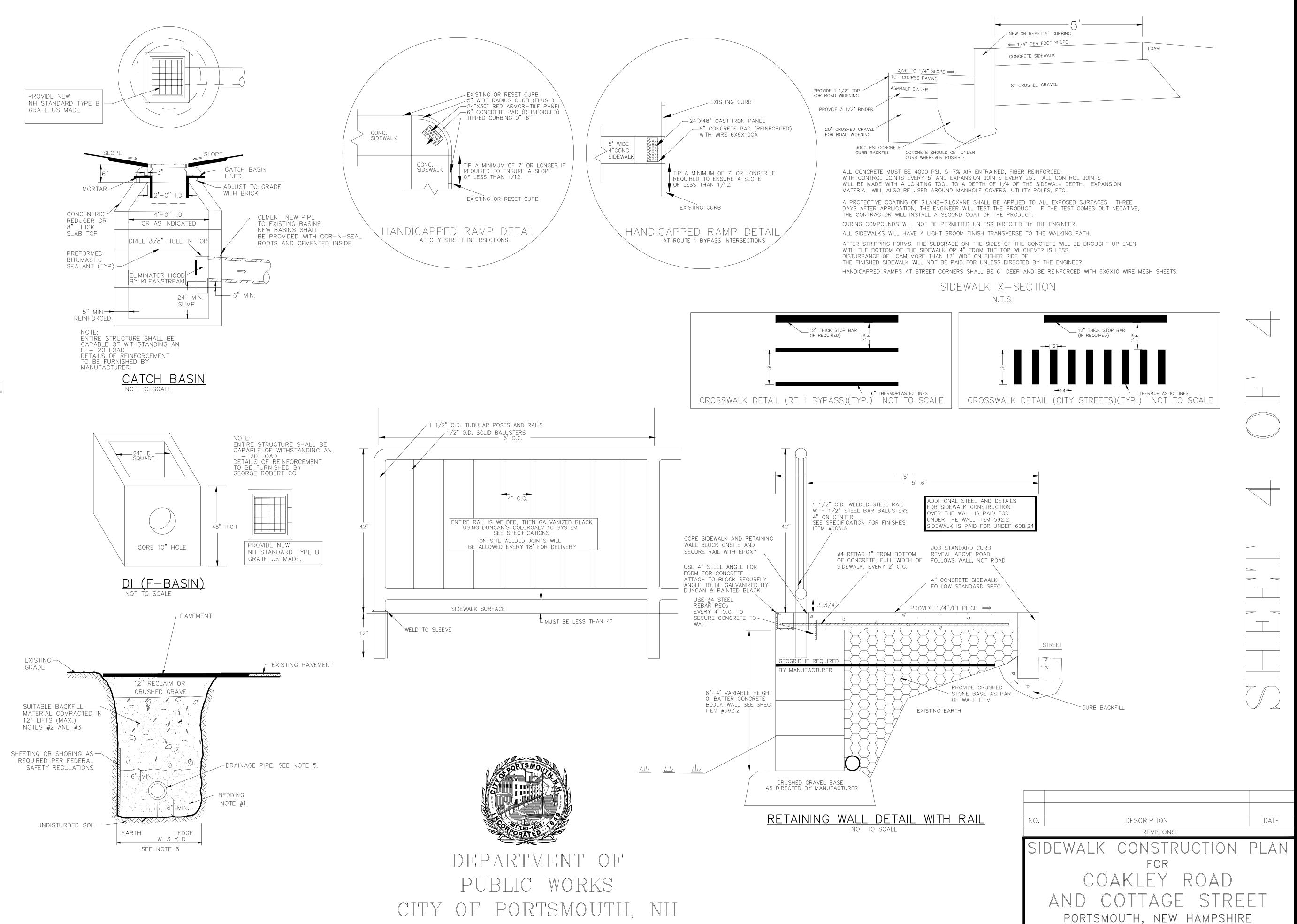
ALL BACKFILL SHALL BE COMPACTED AT OR NEAR OPTIMUM MOISTURE CONTENT BY PNEUMATIC TAMPERS, VIBRATORY COMPACTORS OR OTHER APPROVED MEANS. BACKFILL BENEATH PAVED SURFACES SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF AASHTO T99, METHOD C.

3. <u>SUITABLE MATERIAL</u>:

- IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ROCKS OVER 6 INCHES IN LARGEST DIMENSION; FROZEN EARTH AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
- IN SEEDED AREAS, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, ROCKS UNDER 12", FROZEN EARTH OR CLAY, IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE PIPE WILL BE PRESERVED.

4. BASE COURSE AND PAVEMENT:

- SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DIVISIONS 300 AND 400 RESPECTIVELY.
- 5. W=MAXIMUM ALLOWABLE TRENCH WIDTH:
- W SHALL BE THE MAXIMUM PAYMENT WIDTH FOR ROCK EXCAVATION (TRENCH) AND FOR ORDERED EXCAVATION BELOW GRADE.



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