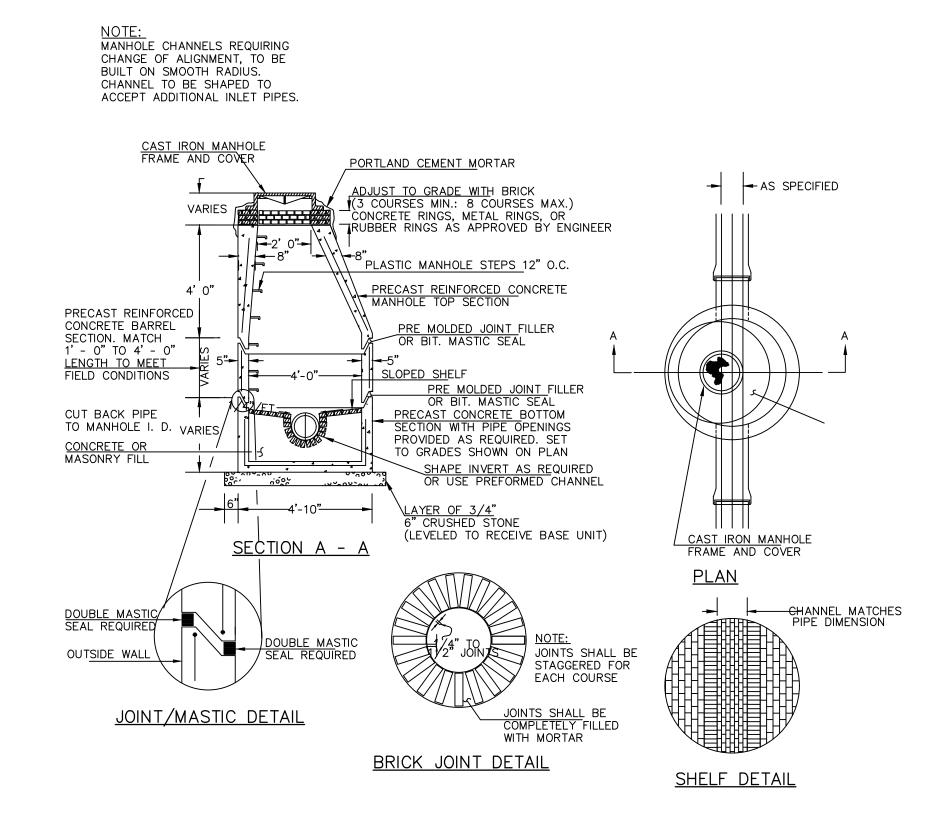
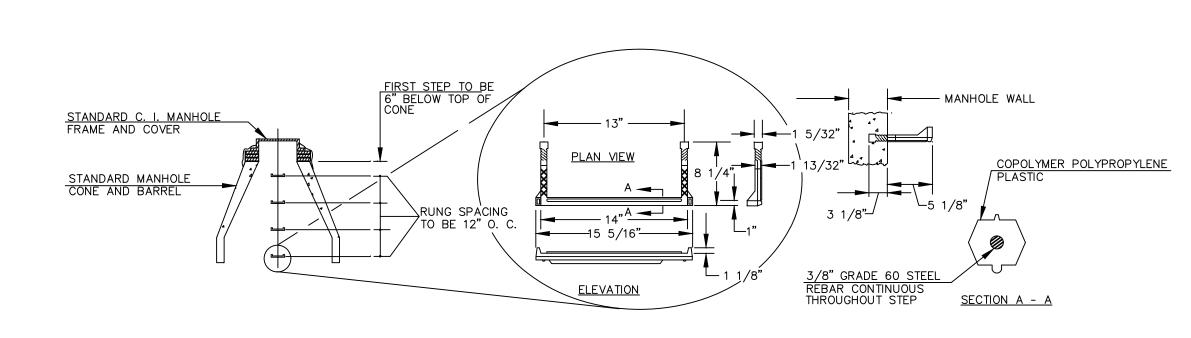


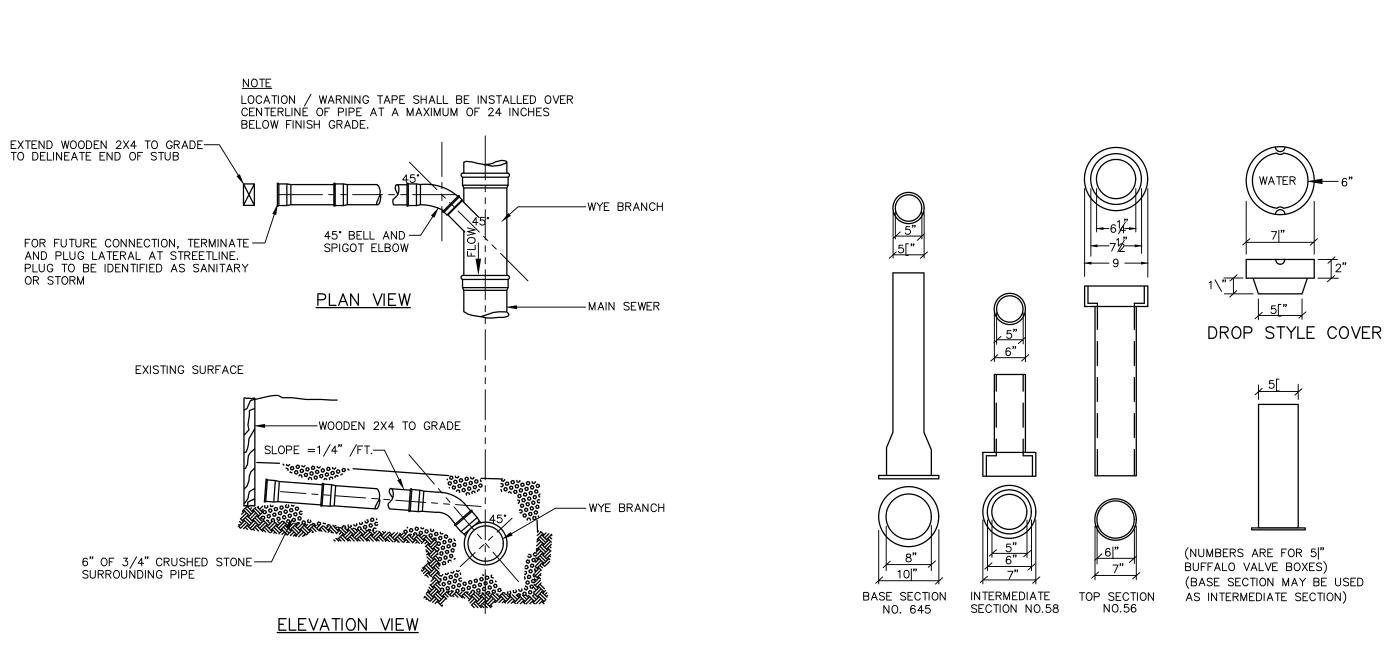
TYPICAL "A" CAST IRON MANHOLE COVER AND FRAME



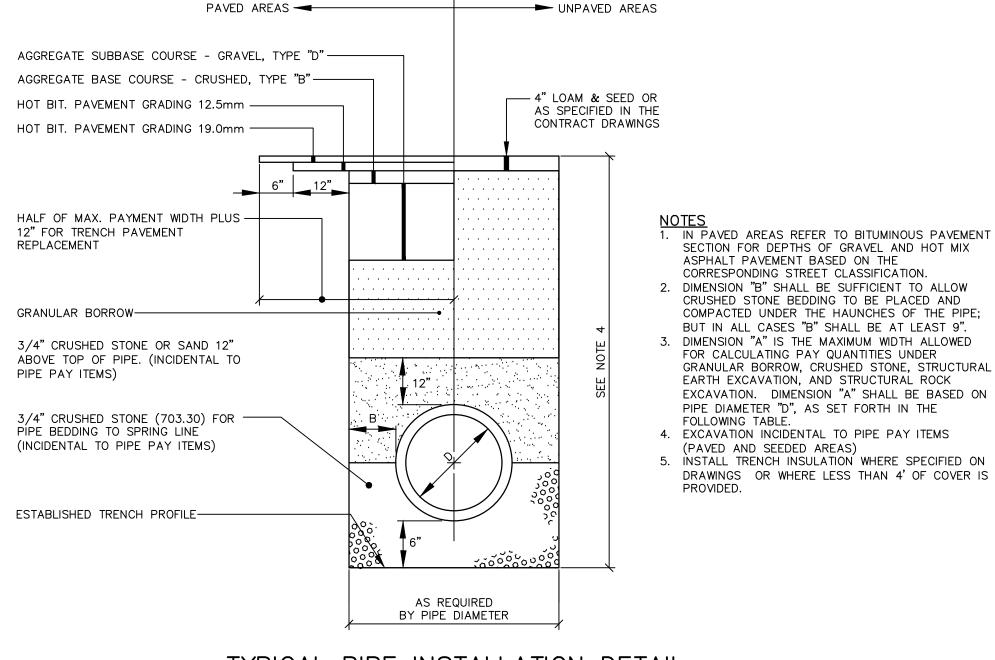
PRECAST CONCRETE MANHOLE TYPE "A"



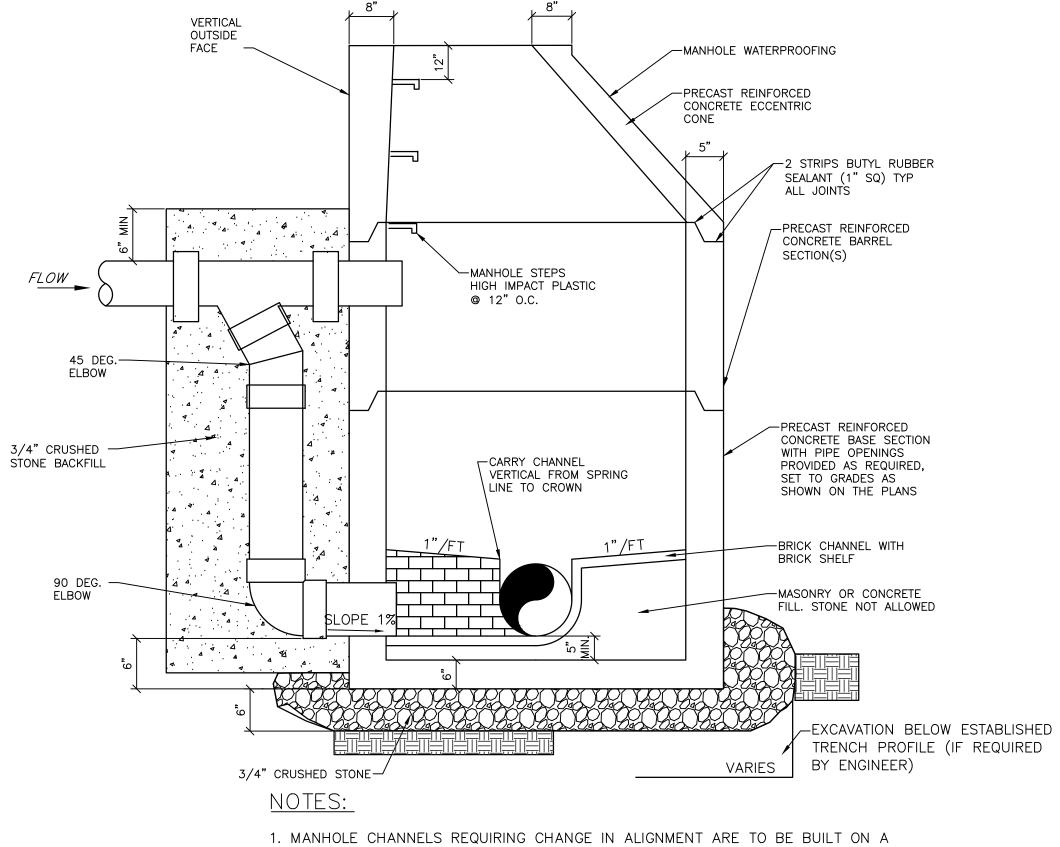
PLASTIC MANHOLE STEPS NOT TO SCALE



TYPICAL SEWER LATERAL WYE CONNECTION NOT TO SCALE VALVE BOX & COVER



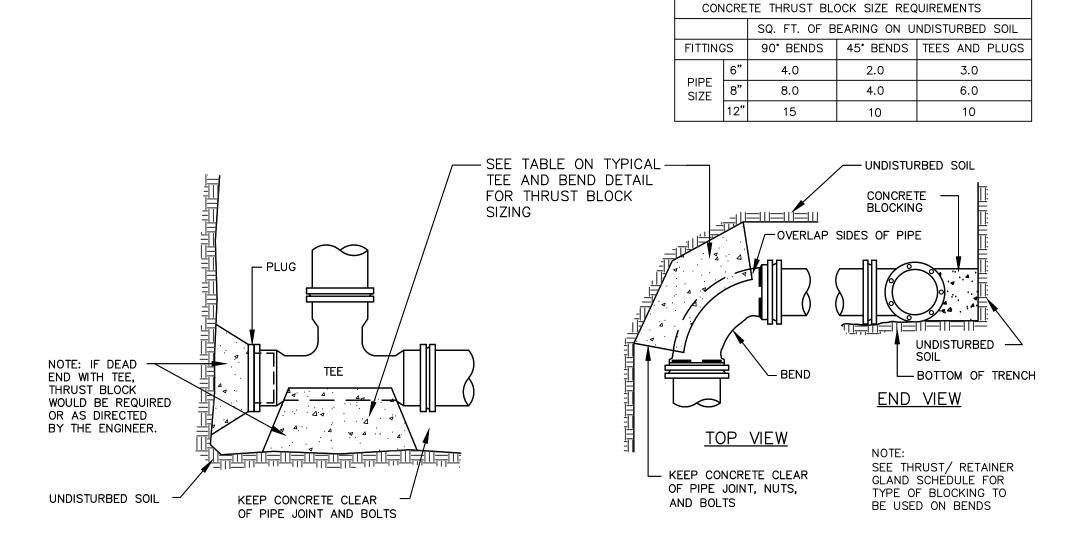
TYPICAL PIPE INSTALLATION DETAIL



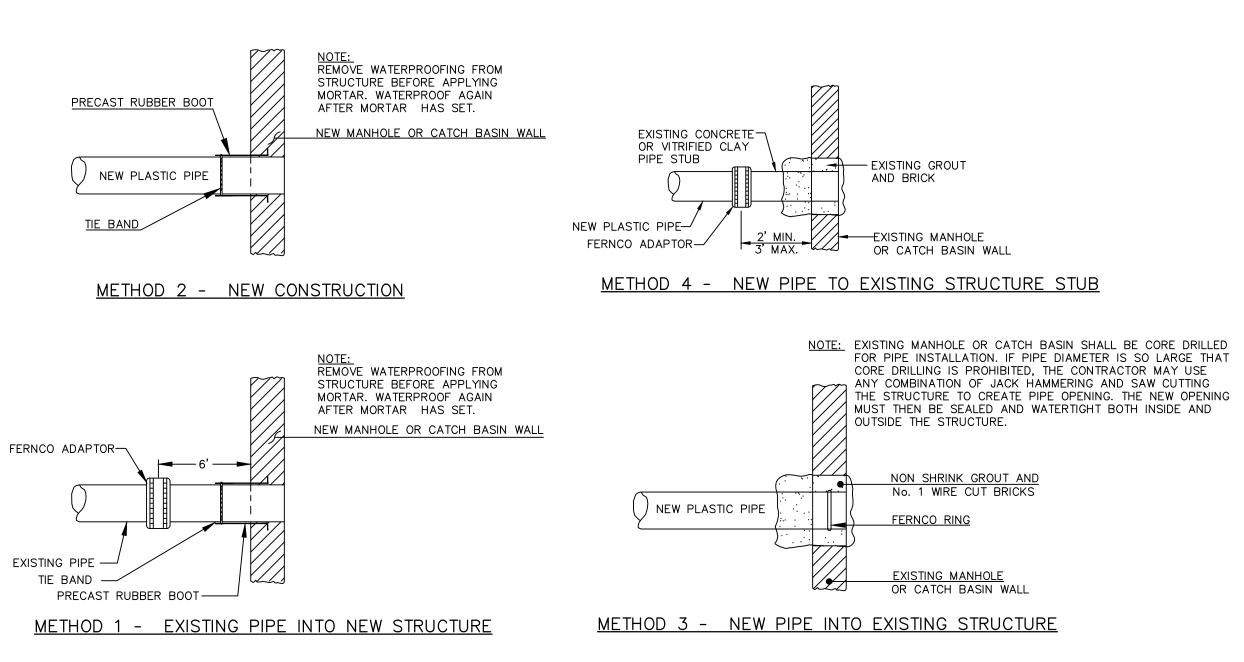
SMOOTH RADIUS. IF SIDE PIPES ENTER CHANNEL, SHAPE TO RECEIVE ADDED SIDE FLOW. 2. USE FLAT SLAB TOP MANHOLE WHEN THE DIFFERENCE BETWEEN INVERT AND RIM IS LESS THAN 6'-0" AND WHEN MANHOLE DIAMETER IS GREATER THAN 4'-0". 3. ALL BACKFILL WITHIN 3 FEET OF STRUCTURE SHALL BE SELECT FILL PLACED IN 8"

OUTSIDE DROP SANITARY MANHOLE DETAIL

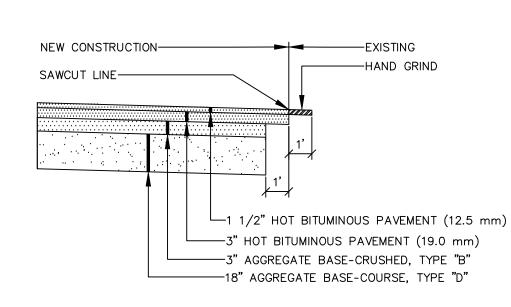
MAXIMUM LIFTS.



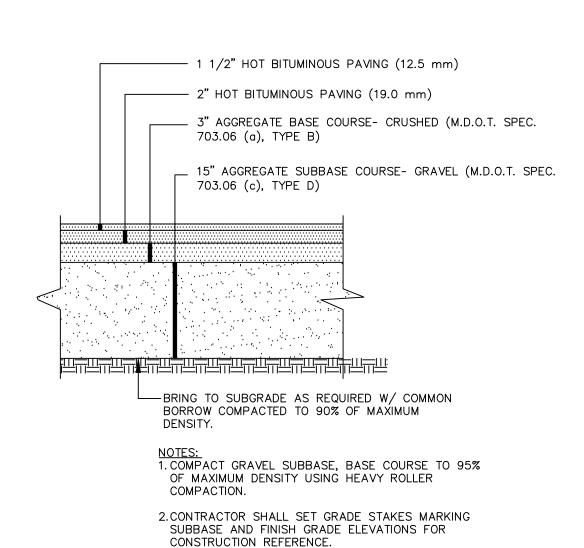
TEE & BEND BLOCKING
NOT TO SCALE



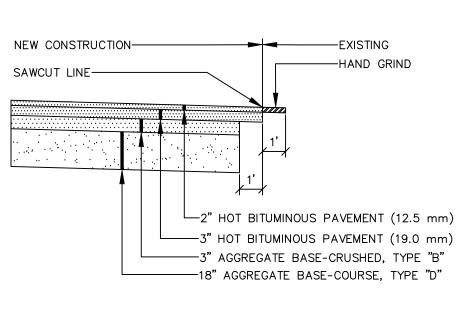
PLASTIC PIPE CONNECTION NOT TO SCALE



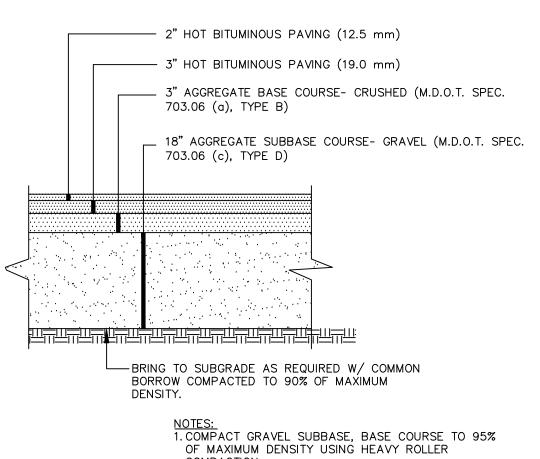
PAVEMENT BUTT JOINT (LOCAL STREET)



TYPICAL ROADWAY SECTION (LOCAL STREET)



PAVEMENT BUTT JOINT (CONGRESS STREET)



CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

2" DIA. GROUND ROD KNOCKOUT 2 PLACES IN FLOOR

END VIEW

4 EACH SIDE, 4 SIDES

∠ 2" DIA. GROUND ROD KNOCKOUT 2 PLACES IN FLOOR

TYPICAL ROADWAY SECTION - CONGRESS STREET
NOT TO SCALE

— 10**'**-6" ——

└ 4-TON LIFT ANCHOR

PLAN VIEW

4 PLACES IN TOP

GALVANIZED "C" CHANNEL, 6'-0" LG. 3 EACH SIDE, 2 SIDES

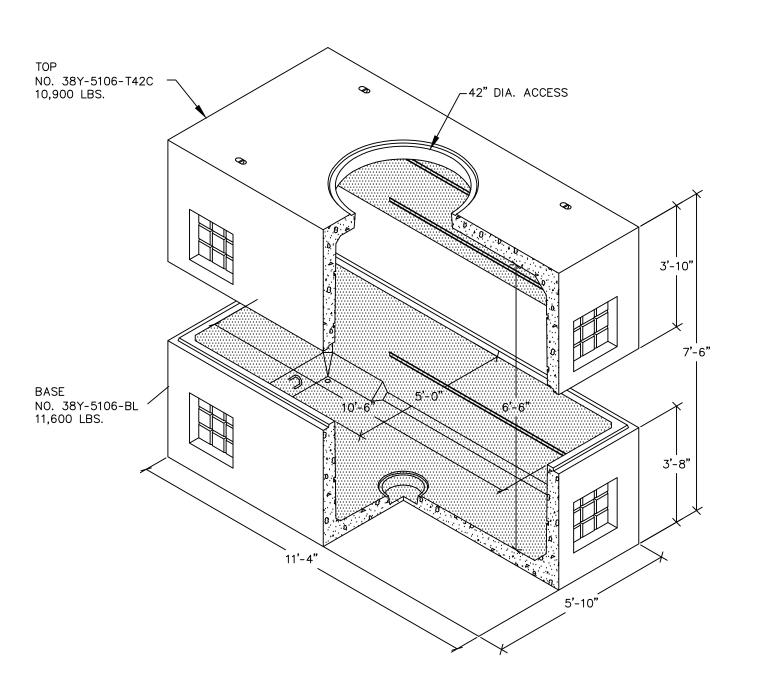
97-11

4 EACH END, 2 ENDS __12" DIA. SUMP

SECTION AA

∠ GALVANIZED PULLING |

IRON (TOP & BOTTOM) \



OPTIONAL TOP SECTIONS IN SIDEWALKS DIAMOND PLATE COVERS BLOCKOUT VAULT ASSEMBLY PSE CODE #7907110 SLAB WT. = 3,400 LBS. TOP WT. = 9,100 LBS. VAULT ASSEMBLY

PSE CODE #7906902 SLAB WT. = $^{\prime\prime}4,000$ LBS. TOP WT. = 9,000 LBS.

NOTE:

1. BASIS OF DESIGN IS 3GY MANHOLE BY
OLD CASTLE PRECAST MANHOLES SHALL
MEET UTILITY OWNERS SPECIFICATIONS. **ELECTRICAL & TELECOMMUNICATIONS MANHOLE** NOT TO SCALE

| | | DIMENSIONS S. CMP. & | - | YLENE F | PIPE |
|-----------------|------------------------|---------------------------|--------------------------|------------------|----------------------------|
| | A | В | С | VOL. BA | SE /100' |
| | UNSHEETED O. D. SOCKET | | | | |
| 8" | 3'- 0" | 1'- 1 1/2" | 0'- 1/2" | 7.358 | 10 3/8" |
| 10" | 3'- 0" | 1'- 0 3/8" | 0'- 0 5/8" | 7.658 | 12 1/2" |
| 12" | 3'- 0" | 0'- 11 3/8" | 0'- 0 5/8" | 7.932 | 14 1/2" |
| 14" 16" | 3'- 0" 3'- 0" | 0'- 10 3/8" 0'- 9 1/4" | 0'- 0 5/8" 0'- 0 3/4" | 8.178 8.447 | 16 3/4" 19" |
| 18" | 3'- 0" | 0'- 8 1/4" | 0'- 0 3/4" | 8.663 | 21 1/8" |
| 20" | 3'- 0" | 0'- 7 3/8" | 0'- 0 3/4" | 8.815 | 23 3/8" |
| 24" | 3'- 1 3/4" | 0'- 6" | 0'- 0 7/8" | 9.633 | 27 3/4" |
| 27" | 3'- 5 1/4" | 0'- 6" | 0'- 1 1/8" | 10.959 | 31 1/8" |
| 30" | 3'- 8 1/4" | l 0'- 6" | 0'- 1 1/8" | 12.156 | 34 1/2" |
| 33" | 3'- 11 3/4" | 0'- 6" | 0'- 1 3/8" | 13.513 | 38 1/8" |
| 36" | 4'- 2 3/4" | 0'- 6" | 0'- 1 3/8" | 14.910 | |
| | ABLE OF [INFORCED | DIMENSIONS CONCRE | - | | |
| D | A | В | С | VOL. BA | |
| | | | | UNSHEETED | O. D. BELL |
| 12" | 3'- 0" | 0'- 10" | 0'-2" | 8.319 | 20 1/4" |
| 15" | 3'- 0" | 0'- 8 1/4" | 0'- 2 1/4" | 8.626 | 24 1/8" |
| 18" 21" | 3'- 0" 3'- 0 1/2" | 0'- 6 1/2" 0'- 6" | 0'- 2 1/2" 0'-2 3/4" | 8.925 9.266 | 28 ["] 31 7/8" |
| 24" | 3'- 6" | 0'- 6" | 0'- 3" | 11.233 | 35 3/4" |
| 27 " | 3'- 9 1/2" | 0'- 6" | 0'- 3 1/4" | 12.655 | 00 07 1 |
| 30" | 4'- 1" | 0'- 6" | 0'- 3 1/2" | 14.120 | |
| 33" | 4'- 4 1/2" | 0'- 6" | 0'- 3 3/4" | 15.722 | |
| <u>36"</u> | 4'- 8" | 0'- 6" | 0'- 4" | 17.338 | |
| 42" | 5'- 3" 5'- 10" | 0'- 6" 0'- 6" | 0'- 4 1/2" 0'- 5" | 20.726 | |
| 48" 54" | 5'- 10" 6'- 5" | 0'- 6" | 0-5 | 24.463 28.404 | |
| 60" | 7'- 0" | 0'- 6" | 0-51/2 | 32.607 | |
| 66" | 7'- 7" | 0'- 6" | 0'- 6 1/2" | 37.074 | |
| 72" | 8'- 2" | 0'- 6" | 0'- 7" | 41.886 | |
| 78 " | 8'- 9" | 0'- 6" | 0'- 7 1/2" | 46.881 | |
| 84" | 9'- 4" | 0'- 6" | 0'- 8" | 52.149 | |
| | 01 4422 | 01 011 | 01 0 4 /0" | F 7 700 | |
| 90" | 9'- 11" | 0'- 6" | 0'- 8 1/2" | 57.769 | |
| | 9'- 11" 10'-6" | 0'- 6" 0'- 6" | 0'- 8 1/2" 0'- 9" | 57.769 63.552 | |

27 in. THROUGH 96 in. INCLUSIVE - TONGUE & GROOVE JOINTS

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston, MA 02110

| D.G. Jones International | |
|---|--|
| 3 Baldwin Green Common, Suite 202, Woburn, MA 01801 | |
| MEDICAL EQUIPMENT PLANNING | |
| Mitchell Planning | |
| 630 Dundee Road, Suite 340, Northbrook IL 60062 | |

PERKINS

Maine Medical Center

Maine Medical

22 Bramhall Street

Portland, ME 04102

+ WILL

225 Franklin Street, Suite 1100

Boston, MA 02110

www.perkinswill.com

Center

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

75 John Roberts Road, Suite 1A,

Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500,

MEPFP ENGINEER/CODE/LOW VOLTAGE

99 Bedford Street, 2nd Floor, Boston, MA 02111

2 Seaport Lane, Suite 200, Boston, MA 02210

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Sebago Technics Inc.

South Portland, ME 04106

Waltham, MA 02453

AKF Group LLC

COST ESTIMATOR

CONSTRUCTION MANAGER

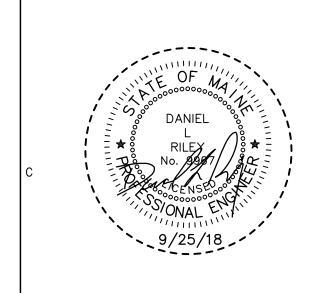
TURNER CONSTRUCTION

t 617.478.0300

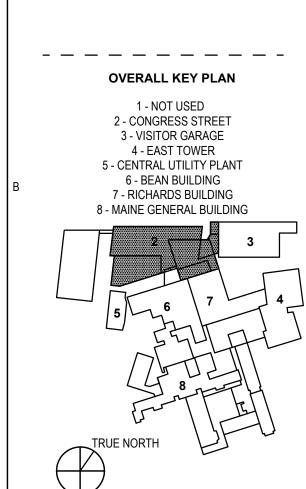
f 617.478.0321

CLIENT

| PROJECT | ΓITLE |
|----------------|-------|
| Congress Str | eet |
| Build | ing |
| 22 Bramhall S | treet |
| Portland ME 04 | 4102 |



| | | KE | Y PLANS |
|---------------------|-----------|--------------|--------------------------------------|
| | PROJ | ECT KEY PLAN | |
| ISERT END, DS | SECTOR 01 | | VISITORS GARAGE BEAN ILDING |



CITY SUBMISSION SEPTEMBER 25, 2018

| 1 | CITY SUBMISSION | | 9/25/2018 | |
|---------|-----------------|-----------------------|-----------|--|
| NO | ISSUE | | DATE | |
| Job No | | 152189.000 MAL/MAN | | |
| Check | | | DLR | |
| - IIICK | | | DLN | |

| DETAILS |
|------------------------|
| CONGRESS STREET |
| EXPANSION |

C30-03

SHEET NUMBER

TITLE

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