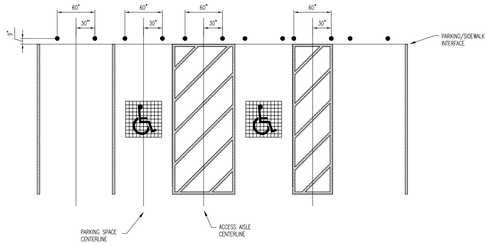
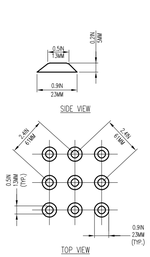


BOLLARD SPACING DETAIL
N.T.S.

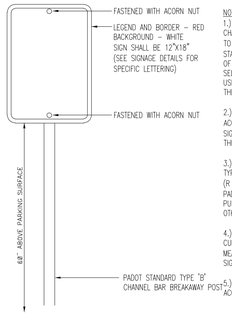


NOTES:
1.) DETECTABLE WARNINGS SHALL BE A PRE-MANUFACTURED ARMOUR-TILE TACTILE SYSTEM OR APPROVED EQUIVALENT.

2.) CONTRACTOR TO COORDINATE SPECIFIC SYSTEM AND MATERIALS TO BE UTILIZED WITH THE ENGINEER TO ENSURE LOCAL, STATE AND A.D.A. COMPLIANCE PRIOR TO CONSTRUCTION.

TRUNCATED DOME PATTERN FOR A.D.A. DETECTABLE WARNING SURFACES (FOR USE IN DOT ROADWAYS)

T S14 SCALE: N.T.S. REV.: 2017.04.20



NOTES:
1.) POST MOUNTED SIGNS SHALL BE TYPE B CHANNEL BAR POSTS AND SHALL CONFORM TO PADOT "TRAFFIC CONTROL SIGNING STANDARDS" TC-8702B SHEET 8 THRU 11 OF 11. APPROPRIATE POSTS SHALL BE SELECTED BASED ON THE SIZE OF THE SIGN USING THE SELECTION TABLES CONTAINED THEREIN.

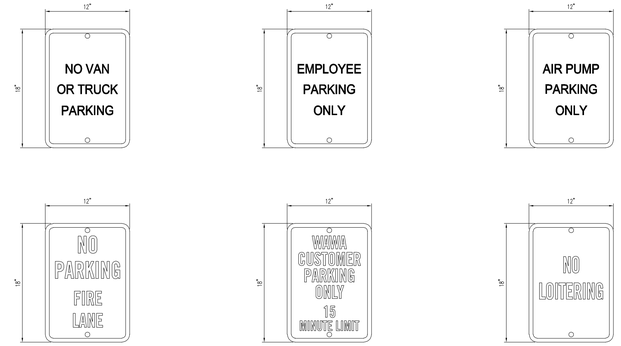
2.) SIGN INSTALLATION SHALL BE IN ACCORDANCE WITH PADOT "TRAFFIC CONTROL SIGNING STANDARDS" TC-8702B SHEETS 8 THRU 11 OF 11, AS AMENDED.

3.) SEE CIVIL PLANS FOR EXACT LOCATION, TYPE AND SIZE OF SIGNS. ALL REGULATORY (R SERIES), SIGNS SHALL CONFORM TO THE PADOT "HANDBOOK OF APPROVED SIGNS", PUBLICATION 236M, AS AMENDED, UNLESS OTHERWISE SPECIFIED.

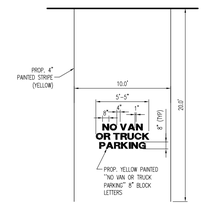
4.) SIGNS SHALL BE SETBACK 2.0' FROM CURBLINES OR OTHER OBSTRUCTIONS AS MEASURED FROM THE FACE/EDGE OF THE SIGN.

5.) ALL SIGNS SHALL BE INSTALLED WITH ACORN NUT FASTENERS.

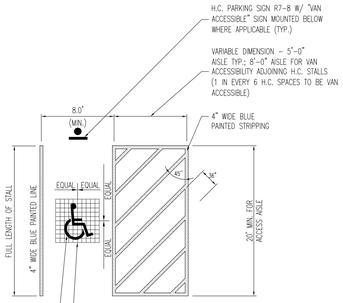
SIGN MOUNTING DETAIL
N.T.S.



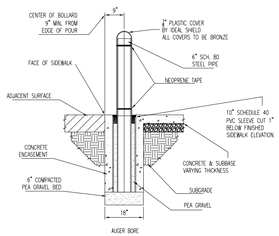
SIGN LETTERING DETAILS
N.T.S.



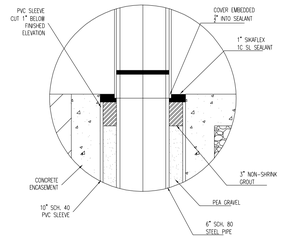
PARKING SPACE LETTERING DETAIL
N.T.S.



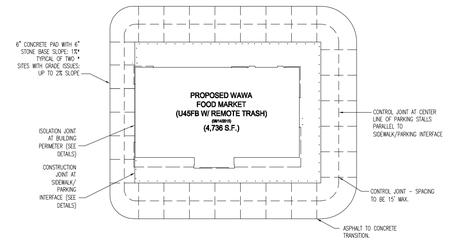
A.D.A. PAINTED MARKINGS
N.T.S.



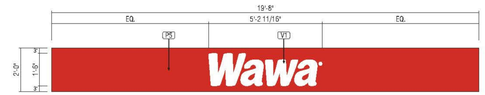
CONCRETE AREAS



GENERAL DETAILS
AND
CAULK/GROUT DETAIL
FOR CONCRETE AREAS

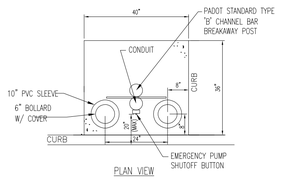


DETAIL OF TYPICAL CONCRETE PAVING AROUND BUILDING (STUCCO U45 F/B TOWER W/ STRIPED ISLANDS)
N.T.S.

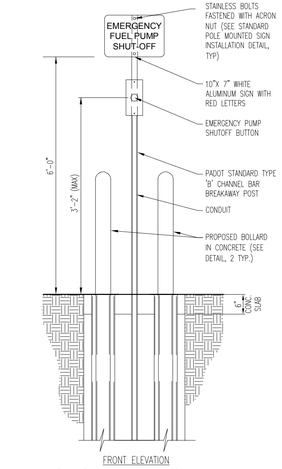


PROPOSED GAS PUMP SPANNER (STACKED PUMPS)
N.T.S.

TOTAL AREA =7.84 S.F.

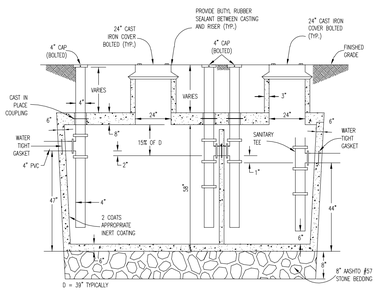


PLAN VIEW



FRONT ELEVATION

EMERGENCY PUMP SHUTOFF DETAIL
N.T.S.



ALL INLET AND OUTLET PIPES SHALL BE INSTALLED NO MORE THAN 6" FROM THE BOTTOM OF THE GREASE TRAP.

TANK TAPERS TOP TO BOTTOM AND IS TRAPEZOIDAL IN CROSS SECTION.

TANK IS 5000 PSI CONCRETE-STEEL REINFORCED (@ 28 DAYS) CONCRETE CONFORMS TO ACI 318-16-4.5.1 AND 318-16-4.5.2, ASTM A615 AND A185

-DIMENSION: 151" INTERIOR/ 163" EXTERIOR LENGTH x 72" INTERIOR/ 84" EXTERIOR WIDTH

NOTES:

1) WHEN LOCATED IN DRIVEWAYS OR PAVED AREAS, GREASE TRAP TO BE DESIGNED FOR APPROPRIATE LOAD BEARING CONDITIONS. GREASE TRAP SHALL BE CAPABLE OF WITHSTANDING HS-20 LOADING.

2) ALL PIPE PENETRATIONS SHALL BE WATERTIGHT.

3) GREASE TRAP SHALL BE PROVIDED WITH GAS-TIGHT MANHOLE COVERS, IN ACCORDANCE WITH TOWNSHIP STANDARD SPECIFICATIONS.

4) PRECAST CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH 5000 PSI.

5) EXTERIOR CONCRETE SURFACES BELOW GRADE SHALL HAVE 2 COATS OF COAL TAR EPOXY.

6) SPECIFIC SEALANT DETAIL AT CONCRETE RISER TO CONCRETE VAULT INTERFACE SHALL BE WATERTIGHT. AT A MINIMUM, THE JOINT SHALL BE SEALED WITH BUTYL RUBBER SEALANT (KENT SEAL #2 OR APPROVED EQUIVALENT) AND THE EXTERIOR OF THE JOINT SHALL BE SEALED WITH NON-SHRINK GROUT IN CONFORMANCE WITH THE TOWNSHIP STANDARD GREASE TRAP DETAIL.

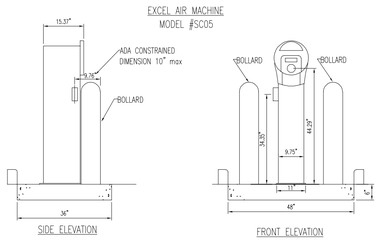
7) TANK SHALL BE TESTED FOR WATER TIGHTNESS BY FILLING FOR 24 HRS. TO SOAK, THEN TOPPED OFF, AND THEN WATCHED FOR 24 HRS. NO DROP IN WATER IS ALLOWED.

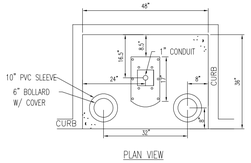
8) CAST IRON SHALL BE BOLTED TO CONCRETE WITH MASTIC TAPE (KENT SEAL OR APPROVED EQUIVALENT) SEALANT.

9) MAXIMUM EARTH COVER=5.0', HS-20 LOADING.

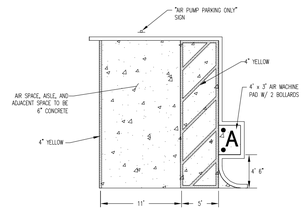
10) INLET AND OUTLET EQUIPPED WITH PIPE SEALS.

GREASE TRAP
1500 GALLON (2 COMPARTMENT) TANK

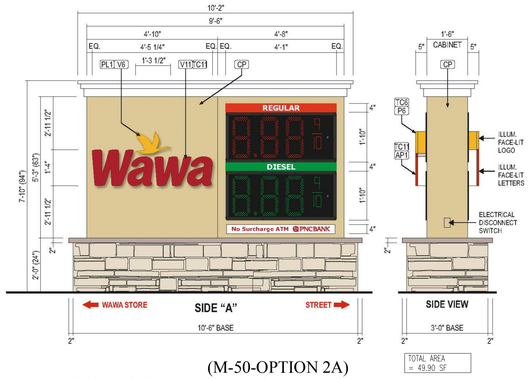




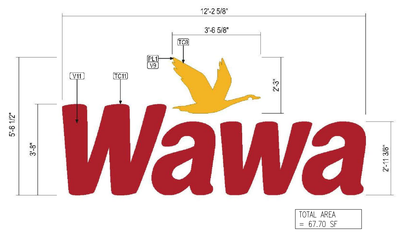
AIR PUMP STAND



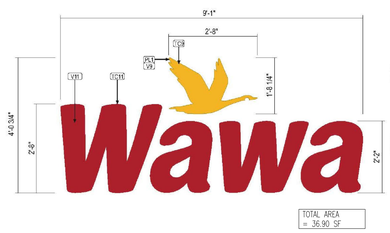
AIR PARKING SPACE DETAIL
N.T.S.



(M-50-OPTION 2A)
PROPOSED DOUBLE FACED INTERNALLY ILLUMINATED WAWA MONUMENT SIGN W/L.E.D. PRICE CHANGER
N.T.S.



PROPOSED 44" INDIVIDUAL ILLUMINATED CHANNEL LETTERS & LOGO
N.T.S.



PROPOSED 32" INDIVIDUAL ILLUMINATED CHANNEL LETTERS & LOGO
N.T.S.

BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
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REVISIONS

REV	DATE	COMMENT	BY
1	08/31/2018	PER DOT COMMENTS	MCM

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

PA1 SYSTEM, INC.
1-800-242-1776

POCS SERIAL NUMBER

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: PC181016
DRAWN BY: MCM
CHECKED BY: EAB
DATE: 2018.07.13
SCALE: AS NOTED
CAD I.D.: PC181016 DETAILS-1

PROJECT:

PRELIMINARY LAND DEVELOPMENT PLANS

FOR

WAYNE PROPERTY ACQUISITION INC.

ROUTE 30 (LANCASTER AVE) & ABERDEEN AVE
RADNOR TOWNSHIP
DELAWARE COUNTY, PA

BOHLER ENGINEERING
1600 MANOR DRIVE, SUITE 200
CHALFONT, PENNSYLVANIA 18914
Phone: (215) 996-9100
Fax: (215) 996-9102
www.BohlerEngineering.com

COMMONWEALTH OF PENNSYLVANIA
E. ERIC BRITZ
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. PE074843

SHEET TITLE:

DETAILS

SHEET NUMBER:

18
OF 19

REVISION 1 - 2018.08.31

L:\R:\PC181016\DRAWINGS\PLAN SETS\LAND DEV\REV-1\PC181016 DETAILS-1----LAYOUT: 18- DETAILS