

# PETERSEN POOL

## INDOOR SPORTS COMPLEX

128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

BRAINTREE PLANNING BOARD

APPROVED DATE: \_\_\_\_\_

NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
4	01/13/2017	COMMENT RESPONSE/BLOG PRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

**APPLICANT:**

TOWN OF BRAINTREE  
C/O MAYOR JOSEPH SULLIVAN  
1 JOHN F KENNEDY MEMORIAL DRIVE  
BRAINTREE, MA 02184

BSC PARTNERS, LLC  
C/O DAVID BOUCHER  
1395A COMMERCE WAY  
ATTLEBORO, MA 02703

**CIVIL ENGINEER:**

**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL. (508) 695-2211 FAX. (508) 695-2219

**ARCHITECT:**

**TROIKA**  
studio TROIKA  
15 CHANNEL CENTER STREET  
SUITE 104  
BOSTON, MA 02210  
857.991.1021

**PROPERTY ADDRESS:**

128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

**ASSESSORS MAP/PARCEL:**

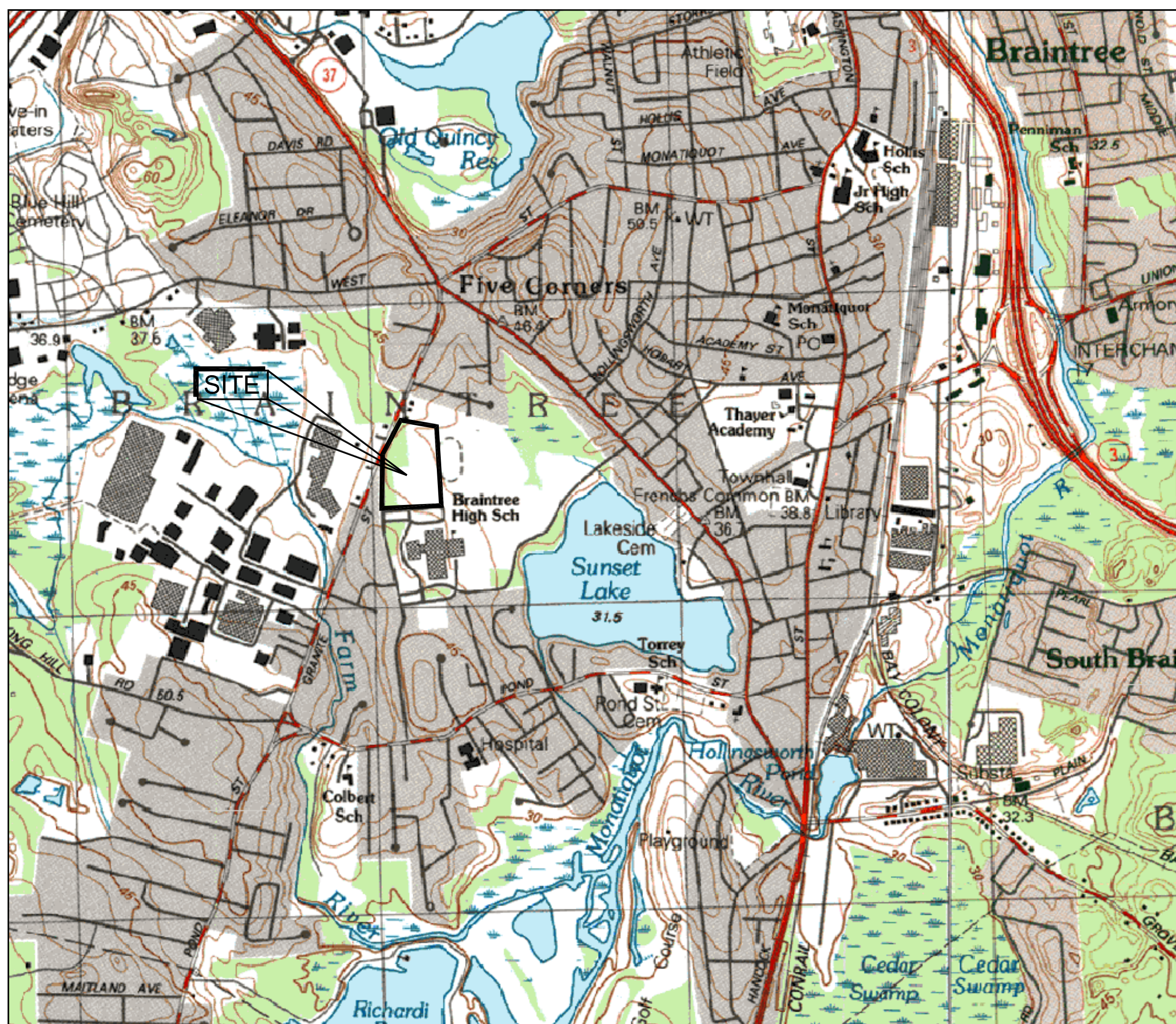
MAP 1042 / A PORTION OF PARCELS 01 & 02

**ZONING DISTRICT:**

WATERSHED HB

**DRAWING LIST:**

- C-0.0 COVER
- C-1.0-1.1 EXISTING CONDITIONS
- C-1.2 PLAN OF LAND
- C-2.0 LAYOUT AND MATERIALS
- C-3.0-3.3 GRADING AND UTILITIES
- C-4.0-4.1 EROSION CONTROL
- C-5.0-5.3 LANDSCAPING PLANS
- C-6.0-6.3 TYPICAL DETAILS
- P1 PHOTOMETRIC PLAN



**USGS MAP**

SCALE: 1" = 1,000'±



TROIKA

ENTRANCE PERSPECTIVE

PETERSEN POOL  
January 13, 2017



**ASSESSORS MAP**

SCALE: 1" = 2,500'±

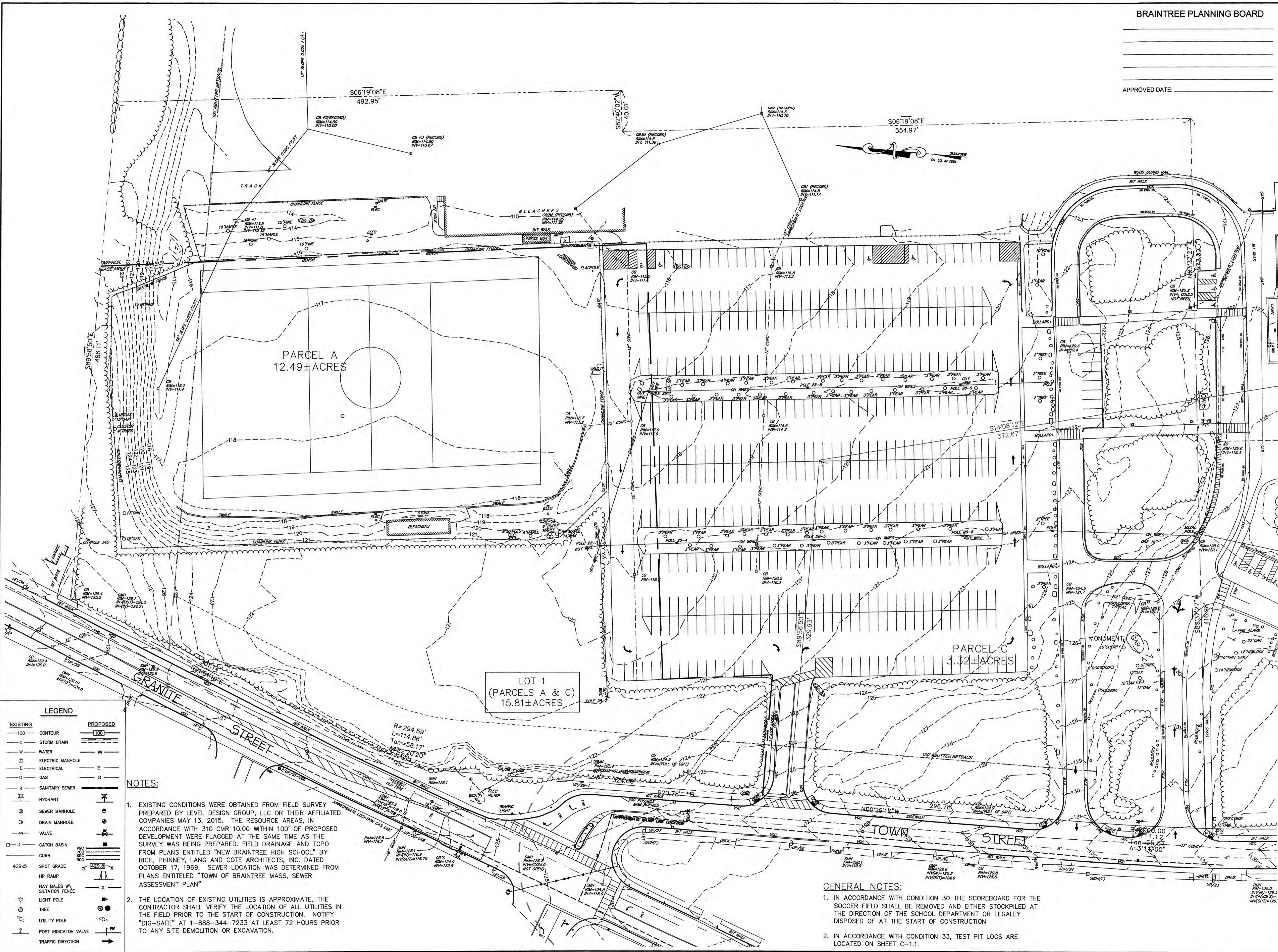


NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/15/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
4	01/13/2017	COMMENT RESPONSE: BLDG FTFRN
5	05/16/2017	COMMENT RESPONSE
6	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_

SEAL

DATE: JULY 30, 2015  
 DRAWN: DRG / NF  
 SCALE: 1" = 40'



**LEGEND**

EXISTING	PROPOSED
100	100
D	D
W	W
E	E
G	G
S	S
H	H
M	M
D	D
V	V
C	C
429x5	429x5
HP	HP
HAY BALES	HAY BALES
SILTATION FENCE	SILTATION FENCE
LIGHT POLE	LIGHT POLE
TREE	TREE
UTILITY POLE	UTILITY POLE
POST INDICATOR VALVE	POST INDICATOR VALVE
TRAFFIC DIRECTION	TRAFFIC DIRECTION

- NOTES:**
- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC OR THEIR AFFILIATED COMPANIES MAY 13, 2015. THE RESOURCE AREAS, IN ACCORDANCE WITH 310 CMR 10.00 WITHIN 100' OF PROPOSED DEVELOPMENT WERE FLAGGED AT THE SAME TIME AS THE SURVEY WAS BEING PREPARED. FIELD DRAINAGE AND TOPO FROM PLANS ENTITLED "NEW BRAINTREE HIGH SCHOOL" BY RICH, PHINNEY, LANG AND COTE ARCHITECTS, INC. DATED OCTOBER 17, 1969. SEWER LOCATION WAS DETERMINED FROM PLANS ENTITLED "TOWN OF BRAINTREE MASS, SEWER ASSESSMENT PLAN"
  - THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

- GENERAL NOTES:**
- IN ACCORDANCE WITH CONDITION 30 THE SCOREBOARD FOR THE SOCCER FIELD SHALL BE REMOVED AND EITHER STOCKPILED AT THE DIRECTION OF THE SCHOOL DEPARTMENT OR LEGALLY DISPOSED OF AT THE START OF CONSTRUCTION
  - IN ACCORDANCE WITH CONDITION 33, TEST PIT LOGS ARE LOCATED ON SHEET C-1.1.

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS

**LEVEL**  
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 CIVIL ENGINEERING / LAND SURVEYING  
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**EXISTING CONDITIONS**

**C-1.0**

SHEET 2 OF 19

**1410.00**



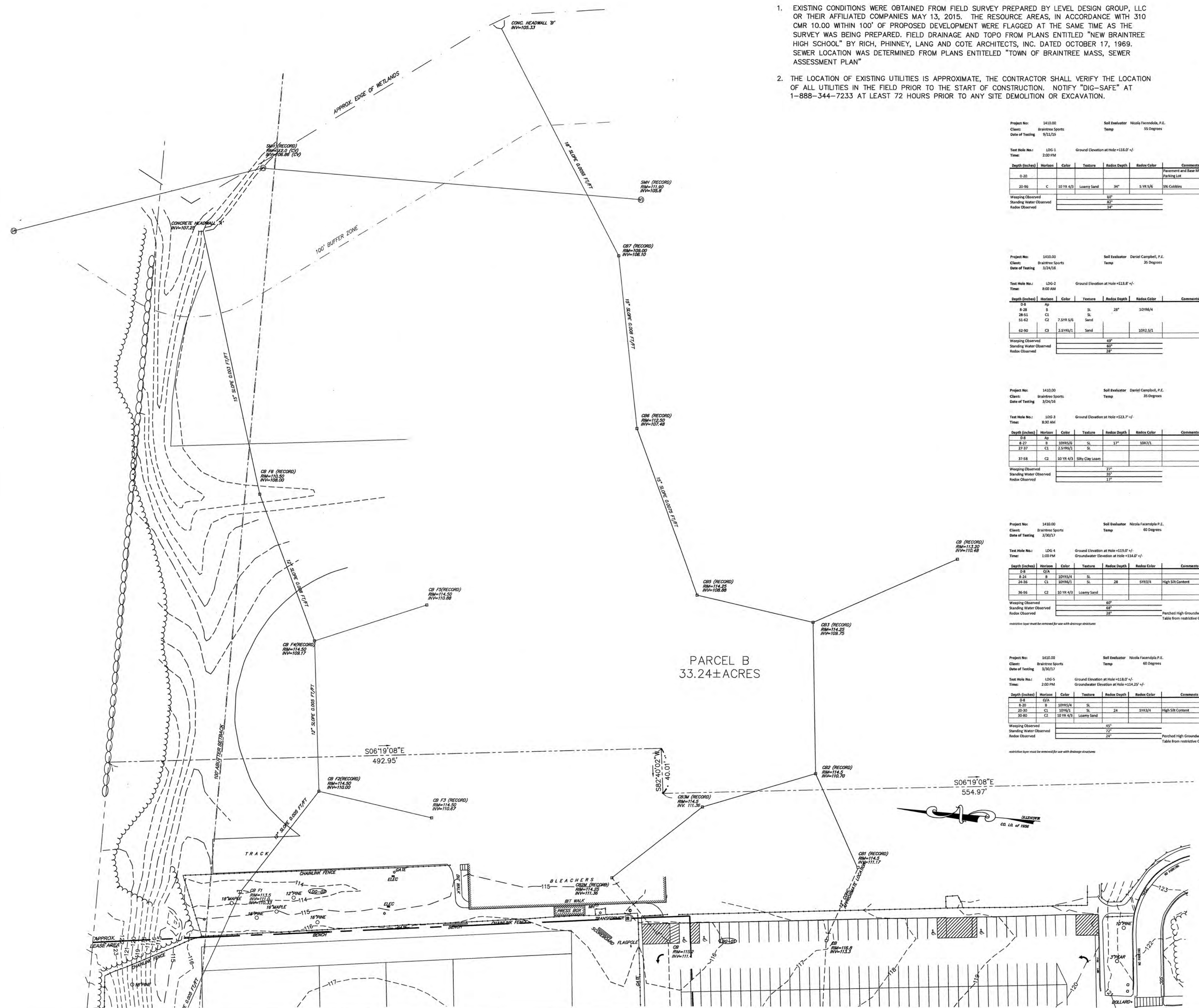
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BRAINTREE PLANNING BOARD

NO	DATE	REVISIONS
1	12/21/2016	PERMITTING SUBMISSION
2	03/16/2018	COMMENT RESPONSE
3	07/26/2018	COMMENT RESPONSE
4	08/03/2018	RESOURCE AREA
5	01/13/2017	COMMENT RESPONSE/DG FIPRN
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_



Project No: 1410.00  
Client: Braintree Sports  
Date of Testing: 3/21/15

Soil Evaluator: Nicola Facendola, P.E.  
Temp: 55 Degrees

Test Hole No.: LDG-1  
Time: 2:00 PM  
Ground Elevation at Hole = 113.0' +/-

Depth (Inches)	Horizon	Color	Texture	Redox Depth	Redox Color	Comments
0-20						Pavement and Base Material of Parking Lot
20-90	C	5D YR 4/3	Loamy Sand	34"	S YR 5/6	Dk Cobble

Wiping Observed: 60"  
Standing Water Observed: 52"  
Redox Observed: 34"

Project No: 1410.00  
Client: Braintree Sports  
Date of Testing: 3/24/16

Soil Evaluator: Daniel Campbell, P.E.  
Temp: 35 Degrees

Test Hole No.: LDG-2  
Time: 8:00 AM  
Ground Elevation at Hole = 113.8' +/-

Depth (Inches)	Horizon	Color	Texture	Redox Depth	Redox Color	Comments
0-8	M					
8-28	B	10YR 5/4	SL	28"	10YR 6/4	
28-51	CL	7.5YR 5/6	SL			
51-63	C	7.5YR 5/6	Sand			
63-90	C3	2.5YR 1/1	Sand		10R 2.5/1	

Wiping Observed: 49"  
Standing Water Observed: 62"  
Redox Observed: 28"

Project No: 1410.00  
Client: Braintree Sports  
Date of Testing: 3/24/16

Soil Evaluator: Daniel Campbell, P.E.  
Temp: 35 Degrees

Test Hole No.: LDG-3  
Time: 8:30 AM  
Ground Elevation at Hole = 113.7' +/-

Depth (Inches)	Horizon	Color	Texture	Redox Depth	Redox Color	Comments
0-8	M					
8-27	B	10YR 5/6	SL	17"	10R 7/2	
27-37	CL	2.5YR 4/3	SL			
37-58	C2	10 YR 4/3	Silty Clay Loam			

Wiping Observed: 27"  
Standing Water Observed: 32"  
Redox Observed: 17"

Project No: 1410.00  
Client: Braintree Sports  
Date of Testing: 3/30/17

Soil Evaluator: Nicola Facendola P.E.  
Temp: 60 Degrees

Test Hole No.: LDG-4  
Time: 1:00 PM  
Ground Elevation at Hole = 113.0' +/-  
Groundwater Elevation at Hole = 114.2' +/-

Depth (Inches)	Horizon	Color	Texture	Redox Depth	Redox Color	Comments
0-8	G/A					
8-24	B	10YR 5/4	SL			
24-28	C1	10YR 6/2	SL	28"	5YR 3/4	High Silt Content
36-96	C2	10 YR 4/3	Loamy Sand			

Wiping Observed: 60"  
Standing Water Observed: 48"  
Redox Observed: 28"

Perched High Groundwater Table from restrictive C1 Layer.

Project No: 1410.00  
Client: Braintree Sports  
Date of Testing: 3/30/17

Soil Evaluator: Nicola Facendola P.E.  
Temp: 60 Degrees

Test Hole No.: LDG-5  
Time: 2:00 PM  
Ground Elevation at Hole = 113.0' +/-  
Groundwater Elevation at Hole = 114.2' +/-

Depth (Inches)	Horizon	Color	Texture	Redox Depth	Redox Color	Comments
0-8	G/A					
8-20	B	10YR 5/4	SL			
20-30	CL	10YR 6/1	SL	24"	5YR 3/4	High Silt Content
30-80	C2	10 YR 4/3	Loamy Sand			

Wiping Observed: 45"  
Standing Water Observed: 72"  
Redox Observed: 24"

Perched High Groundwater Table from restrictive C1 Layer.

LEGEND

EXISTING	PROPOSED
100	100
D	STORM DRAIN
W	WATER
⊙	ELECTRIC MANHOLE
⊖	ELECTRICAL
G	GAS
S	SANITARY SEWER
⊕	HYDRANT
⊙	SEWER MANHOLE
⊙	DRAIN MANHOLE
⊕	VALVE
⊕	CATCH BASIN
42x5	CURB
42x5	SPOT GRADE
HP	HP RAMP
☆	HAY BALES W/ SILTATION FENCE
⊙	TREE
⊙	UTILITY POLE
⊕	POST INDICATOR VALVE
→	TRAFFIC DIRECTION

SEAL

JOYCE HASTINGS  
NO. 35933  
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE: JULY 30, 2015  
DRAWN: DRC/NF  
SCALE: 1" = 40'

**PETERSEN POOL**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

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**EXISTING CONDITIONS**

**C-1.1**  
SHEET 3 OF 19

0' 20' 40' 80'

**1410.00**

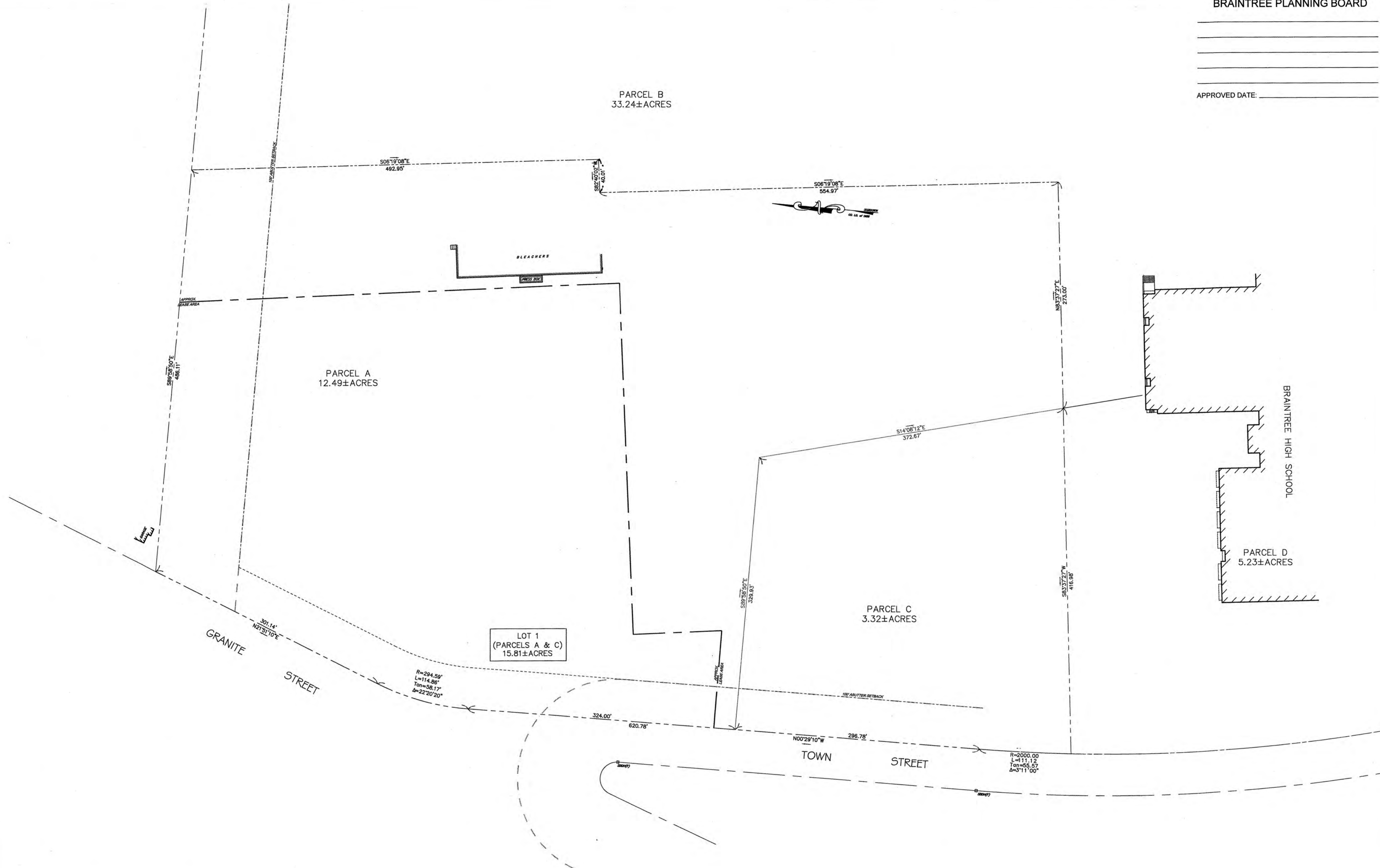


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2	03/16/2016	COMMENT RESPONSE
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4	01/13/2017	COMMENT RESPONSE/BLDG FTIPR
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/18/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

SEAL

DATE: JULY 30, 2015  
 DRAWN: DRC / MF  
 SCALE: 1" = 60'



**PETERSEN POOL**  
 BRAINTREE SPORT CENTER-PETERSEN POOL  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS

LEGEND	
EXISTING	PROPOSED
100	100
D	D
W	W
⊕	⊕
E	E
G	G
S	S
HY	HY
SM	SM
DM	DM
V	V
C	C
CR	CR
42x5	42x5
HP	HP
HAY	HAY
L	L
T	T
U	U
P	P
TR	TR

ZONING BY-LAW REQUIREMENTS		
ZONING DISTRICT: WATERSHED HIGHWAY BUSINESS		
USE: INDOOR RECREATION		
	REQUIRED	PROPOSED
MIN. LOT AREA (S.F.)	43,560	688,997
MIN. LOT FRONTAGE	150'	1,159.78'
FRONT YARD SETBACK	50'	91.3
SIDE YARD SETBACK	30'	100'
REAR YARD SETBACK	50'	143.4'
MAX. BLDG/LOT COVERAGE	70%	12.73%
BUILDING FLOOR AREA (S.F.)		113,900
MAX. BUILDING HEIGHT	45' / 50'	45'
MIN. OPEN SPACE	30%	70±%
MIN. LOT WIDTH	150'	1,159±
MIN. LOT DEPTH	200'	688.89'

- NOTES:
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PLAN OF LAND

**C-1.2**

SHEET 4 OF 19

0' 30' 60' 120'

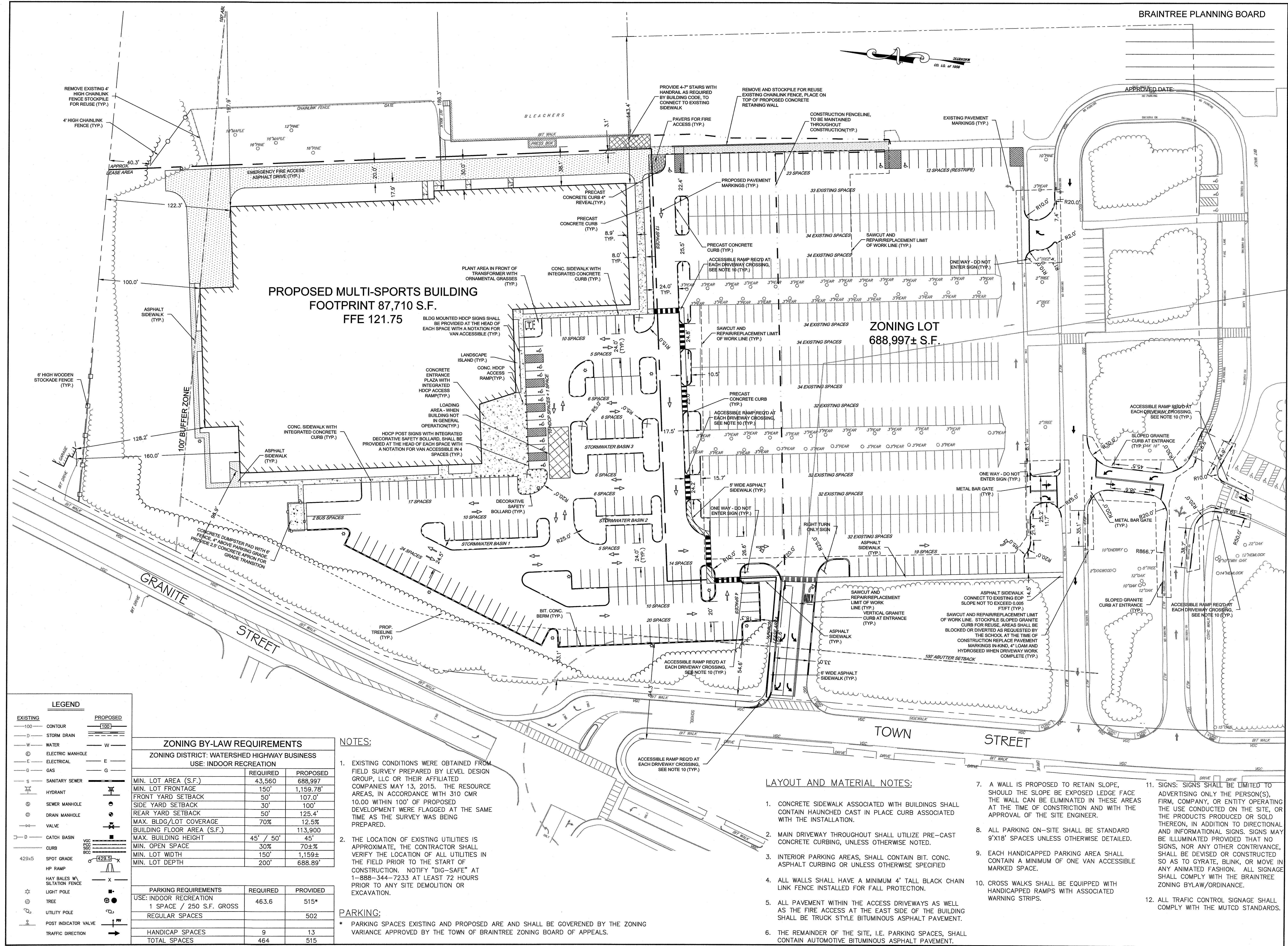
1410.00



NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/28/2016	COMMENT RESPONSE
4	12/13/2016	BUILDING MODIFICATION
5	01/13/2017	COMMENT RESPONSE/BLDG FTRPRT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/18/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

SEAL

DATE: JULY 30, 2015  
 DRAWN: DRC / NF  
 SCALE: 1" = 40'



**PROPOSED MULTI-SPORTS BUILDING**  
 FOOTPRINT 87,710 S.F.  
 FFE 121.75

**ZONING LOT**  
 688,997± S.F.

**LEGEND**

EXISTING	PROPOSED
100	100
CONTOUR	CONTOUR
STORM DRAIN	STORM DRAIN
WATER	WATER
ELECTRIC MANHOLE	ELECTRIC MANHOLE
ELECTRICAL	ELECTRICAL
GAS	GAS
SANITARY SEWER	SANITARY SEWER
HYDRANT	HYDRANT
SEWER MANHOLE	SEWER MANHOLE
DRAIN MANHOLE	DRAIN MANHOLE
VALVE	VALVE
CATCH BASIN	CATCH BASIN
CURB	CURB
SPOT GRADE	SPOT GRADE
HP RAMP	HP RAMP
HAY BALES W/ SILTATION FENCE	HAY BALES W/ SILTATION FENCE
LIGHT POLE	LIGHT POLE
TREE	TREE
UTILITY POLE	UTILITY POLE
POST INDICATOR VALVE	POST INDICATOR VALVE
TRAFFIC DIRECTION	TRAFFIC DIRECTION

**ZONING BY-LAW REQUIREMENTS**  
 ZONING DISTRICT: WATERSHED HIGHWAY BUSINESS  
 USE: INDOOR RECREATION

	REQUIRED	PROPOSED
MIN. LOT AREA (S.F.)	43,560	688,997
MIN. LOT FRONTAGE	150'	1,159.78'
FRONT YARD SETBACK	50'	107.0'
SIDE YARD SETBACK	30'	100'
REAR YARD SETBACK	50'	125.4'
MAX. BLDG/LOT COVERAGE	70%	12.5%
BUILDING FLOOR AREA (S.F.)		113,900
MAX. BUILDING HEIGHT	45' / 50'	45'
MIN. OPEN SPACE	30%	70±%
MIN. LOT WIDTH	150'	1,159±
MIN. LOT DEPTH	200'	688.89'

PARKING REQUIREMENTS	REQUIRED	PROVIDED
USE: INDOOR RECREATION	463.6	515*
1 SPACE / 250 S.F. GROSS		
REGULAR SPACES		502
HANDICAP SPACES	9	13
TOTAL SPACES	464	515

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**PARKING:**  
 \* PARKING SPACES EXISTING AND PROPOSED ARE AND SHALL BE GOVERNED BY THE ZONING VARIANCE APPROVED BY THE TOWN OF BRAINTREE ZONING BOARD OF APPEALS.

**LAYOUT AND MATERIAL NOTES:**

- CONCRETE SIDEWALK ASSOCIATED WITH BUILDINGS SHALL CONTAIN HAUNCHED CAST IN PLACE CURB ASSOCIATED WITH THE INSTALLATION.
- MAIN DRIVEWAY THROUGHOUT SHALL UTILIZE PRE-CAST CONCRETE CURBING, UNLESS OTHERWISE NOTED.
- INTERIOR PARKING AREAS, SHALL CONTAIN BIT. CONC. ASPHALT CURBING OR UNLESS OTHERWISE SPECIFIED
- ALL WALLS SHALL HAVE A MINIMUM 4' TALL BLACK CHAIN LINK FENCE INSTALLED FOR FALL PROTECTION.
- ALL PAVEMENT WITHIN THE ACCESS DRIVEWAYS AS WELL AS THE FIRE ACCESS AT THE EAST SIDE OF THE BUILDING SHALL BE TRUCK STYLE BITUMINOUS ASPHALT PAVEMENT.
- THE REMAINDER OF THE SITE, I.E. PARKING SPACES, SHALL CONTAIN AUTOMOTIVE BITUMINOUS ASPHALT PAVEMENT.
- A WALL IS PROPOSED TO RETAIN SLOPE, SHOULD THE SLOPE BE EXPOSED SLOPE FACE THE WALL CAN BE ELIMINATED IN THESE AREAS AT THE TIME OF CONSTRUCTION AND WITH THE APPROVAL OF THE SITE ENGINEER.
- ALL PARKING ON-SITE SHALL BE STANDARD 9'X18' SPACES UNLESS OTHERWISE DETAILED.
- EACH HANDICAPPED PARKING AREA SHALL CONTAIN A MINIMUM OF ONE VAN ACCESSIBLE MARKED SPACE.
- CROSS WALKS SHALL BE EQUIPPED WITH HANDICAPPED RAMPS WITH ASSOCIATED WARNING STRIPS.
- SIGNS: SIGNS SHALL BE LIMITED TO ADVERTISING ONLY THE PERSON(S), FIRM, COMPANY, OR ENTITY OPERATING THE USE CONDUCTED ON THE SITE, OR THE PRODUCTS PRODUCED OR SOLD THEREON, IN ADDITION TO DIRECTIONAL AND INFORMATIONAL SIGNS. SIGNS MAY BE ILLUMINATED PROVIDED THAT NO SIGNS, NOR ANY OTHER CONTRIVANCE, SHALL BE DEvised OR CONSTRUCTED SO AS TO GYRATE, BLINK, OR MOVE IN ANY ANIMATED FASHION. ALL SIGNAGE SHALL COMPLY WITH THE BRAINTREE ZONING BYLAW/ORDINANCE.
- ALL TRAFFIC CONTROL SIGNAGE SHALL COMPLY WITH THE MUTCD STANDARDS.

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 BRAINTREE, MASSACHUSETTS

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**LAYOUT & MATERIALS**

**C-2.0**  
 SHEET 5 OF 19

0' 20' 40' 80'

**1410.00**







**GRADING AND UTILITY NOTES:**

- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL.
- ALL EXISTING PAVEMENT, CURB, WALKS, UTILITIES, LIGHT POLES, TREES, SHRUBS, ETC., SHALL BE REMOVED FROM THE AREAS TO BE DEVELOPED. ALL SUCH ITEMS NOT WITHIN THE WORK AREA SHALL BE PROTECTED AND UNDISTURBED.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEEDED.
- ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF BRAINTREE, THE COMMONWEALTH OF MASSACHUSETTS AND ANY OTHER AGENCIES HAVING JURISDICTION.
- THE AREAS WHERE LEDGE CUTS ARE MADE AND WALLS ARE SHOWN SHALL BE ADJUSTED TO UTILIZE THE LEDGE CUT TO MINIMIZE WALL PLACEMENT.
- AN EXTERNAL GREASE TRAP SHALL BE PROVIDED ON FOOD WASTE FROM THE FACILITY AS REQUIRED BY THE ENGINEERING AND SEWER DEPARTMENTS FOR THE CONNECTION PROPOSED.
- ALL SIGNS AND PAVEMENT MARKINGS WITHIN THE FACILITY SHALL COMPLY WITH MUTCD STANDARDS.
- WALKWAYS AROUND THE BUILDING SHALL COMPLY WITH AAB & ADA STANDARDS FOR CONSTRUCTION, MATERIALS AND SLOPES.
- DRAINAGE AND SEWER AS THEY ARE INSTALLED CROSS COUNTRY SHALL BE INSTALLED WITH DRAINAGE FIRST AND THE DRAINAGE SHALL UTILIZE PIPE WITH WATERTIGHT GASKETS AND TRENCH DAMNS ALONG THE LENGTH OF INSTALLATION EVERY 100'.
- LOAMY AND HIGH SILT CONTENT MATERIALS SHALL BE REMOVED FROM WITHIN THE FOOTPRINT OF THE PROPOSED DETENTION BASINS, AND SHALL BE DOCUMENTED BY THE PROJECT ENGINEER.
- IN ACCORDANCE WITH CONDITION 25 THE DIRECTIONAL IMPROVEMENTS ARE SHOWN HEREIN. DIRECTIONAL IMPROVEMENTS SHALL BE CONSTRUCTED ONLY UTILIZING SHEET C-2.0 FOR REFERENCE AS AMENDED.

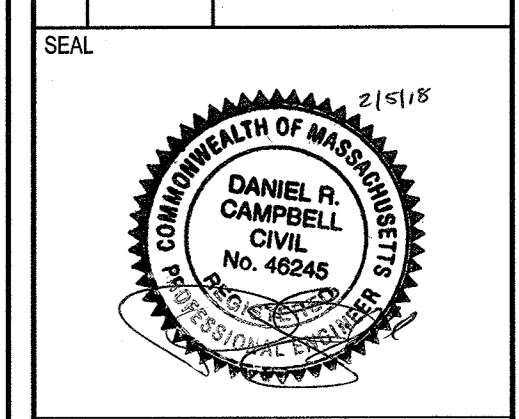
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4	08/03/2016	RESOURCE AREA
5	01/13/2017	COMMENT RESPONSE BLDG FOOTPRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_



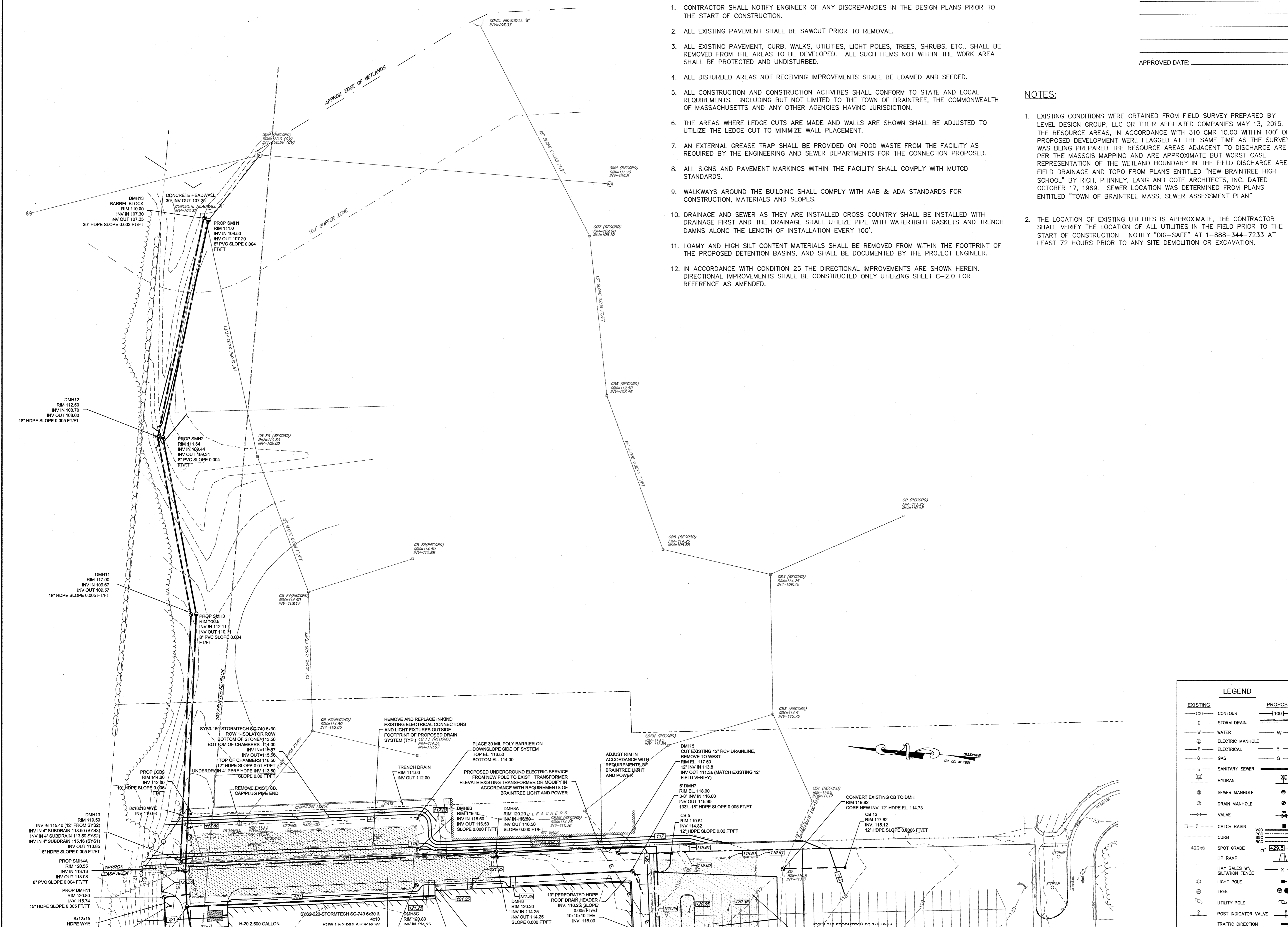
DATE: JULY 30, 2015  
DRAWN: DRC/NF  
SCALE: 1" = 40'

**PETERSEN POOL**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAintree, MASSACHUSETTS

**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL. (508) 695-2221 FAX. (508) 695-2219

**GRADING & UTILITIES**

**C-3.1**  
SHEET 7 OF 19  
1410.00

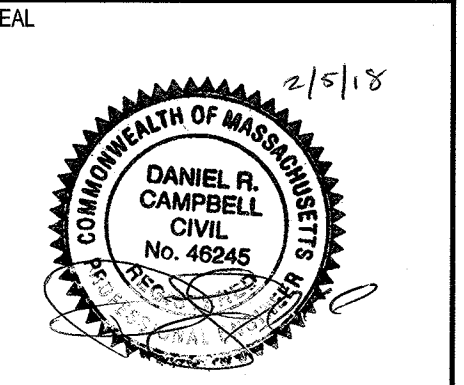


LEGEND	
EXISTING	PROPOSED
— 100 —	— [100] —
D	STORM DRAIN
W	WATER
E	ELECTRIC
G	GAS
S	SANITARY SEWER
⊕	HYDRANT
⊙	SEWER MANHOLE
⊖	DRAIN MANHOLE
⊕	VALVE
□	CATCH BASIN
429x5	CURB
⊙	SPOT GRADE
⊙	HP RAMP
⊙	HAY BALES W/ SILTATION FENCE
⊙	LIGHT POLE
⊙	TREE
⊙	UTILITY POLE
⊙	POST INDICATOR VALVE
→	TRAFFIC DIRECTION



APPROVED DATE: \_\_\_\_\_

NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE/DLG FTRMNT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS



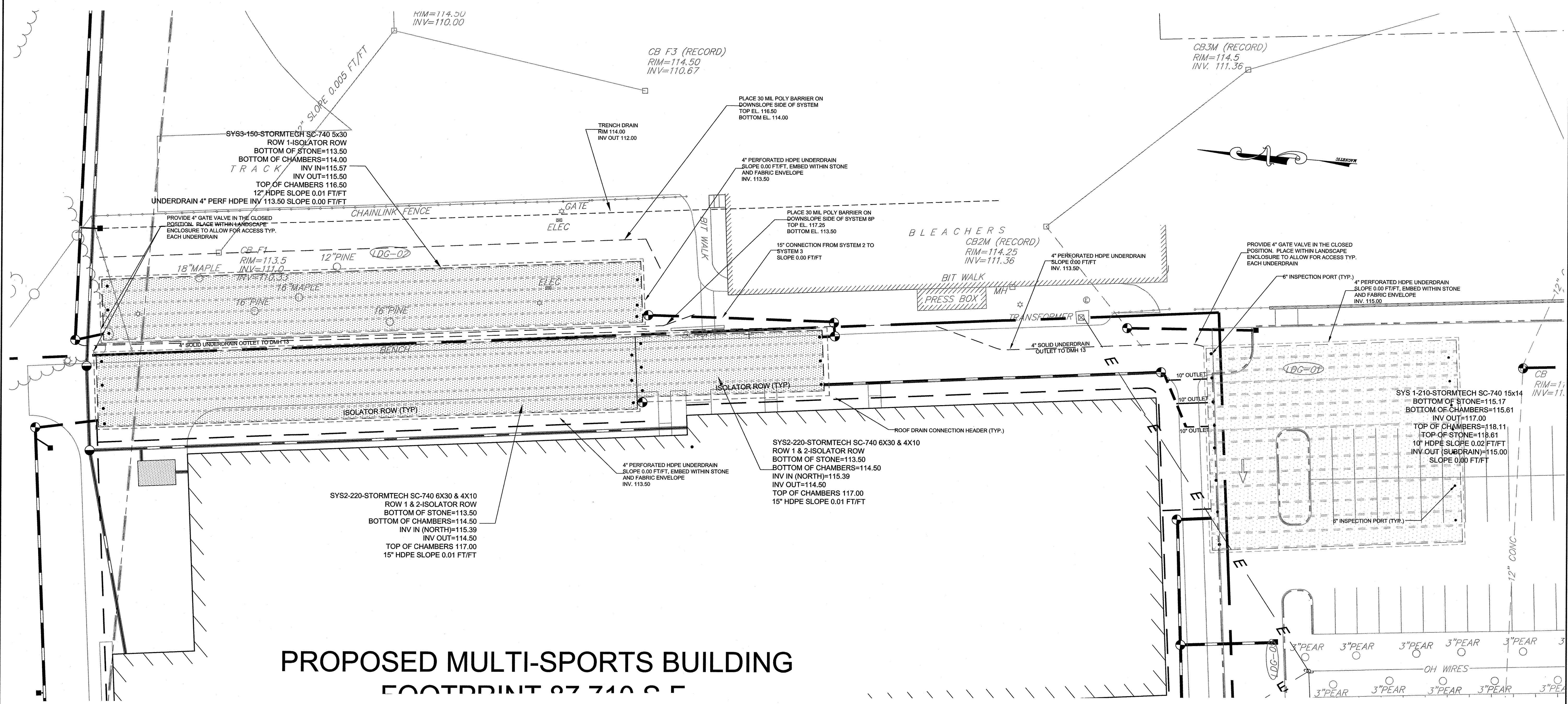
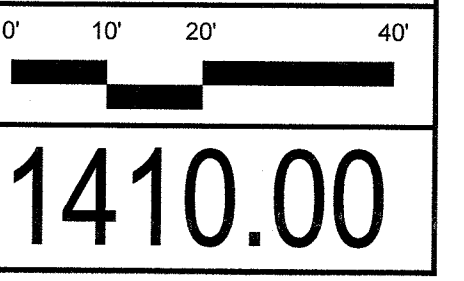
DATE : JULY 30, 2015  
 DRAWN : DRC/NF  
 SCALE : 1" = 20'

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS



**GRADING & UTILITIES**

**C-3.2**  
 SHEET 8 OF 19



**PROPOSED MULTI-SPORTS BUILDING**  
 FOOTPRINT 87' x 105'

**LEGEND**

EXISTING	PROPOSED
(---) 100'	(---) 100'
(---) STORM DRAIN	(---) STORM DRAIN
(---) WATER	(---) WATER
(---) ELECTRIC MANHOLE	(---) ELECTRIC MANHOLE
(---) ELECTRICAL	(---) ELECTRICAL
(---) GAS	(---) GAS
(---) SANITARY SEWER	(---) SANITARY SEWER
(---) HYDRANT	(---) HYDRANT
(---) SEWER MANHOLE	(---) SEWER MANHOLE
(---) DRAIN MANHOLE	(---) DRAIN MANHOLE
(---) VALVE	(---) VALVE
(---) CATCH BASIN	(---) CATCH BASIN
(---) CURB	(---) CURB
(---) SPOT GRADE	(---) SPOT GRADE
(---) HP RAMP	(---) HP RAMP
(---) HAY BALES W/ SILTATION FENCE	(---) HAY BALES W/ SILTATION FENCE
(---) LIGHT POLE	(---) LIGHT POLE
(---) TREE	(---) TREE
(---) UTILITY POLE	(---) UTILITY POLE
(---) POST INDICATOR VALVE	(---) POST INDICATOR VALVE
(---) TRAFFIC DIRECTION	(---) TRAFFIC DIRECTION

**NOTES:**

- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC OR THEIR AFFILIATED COMPANIES MAY 13, 2015. THE RESOURCE AREAS, IN ACCORDANCE WITH 310 CMR 10.00 WITHIN 100' OF PROPOSED DEVELOPMENT WERE FLAGGED AT THE SAME TIME AS THE SURVEY WAS BEING PREPARED. FIELD DRAINAGE AND TOPO FROM PLANS ENTITLED "NEW BRAINTREE HIGH SCHOOL" BY RICH, PHINNEY, LANG AND COTE ARCHITECTS, INC. DATED OCTOBER 17, 1969. SEWER LOCATION WAS DETERMINED FROM PLANS ENTITLED "TOWN OF BRAINTREE MASS, SEWER ASSESSMENT PLAN"
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

**GRADING AND UTILITY NOTES:**

- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL.
- ALL EXISTING PAVEMENT, CURB, WALKS, UTILITIES, LIGHT POLES, TREES, SHRUBS, ETC., SHALL BE REMOVED FROM THE AREAS TO BE DEVELOPED. ALL SUCH ITEMS NOT WITHIN THE WORK AREA SHALL BE PROTECTED AND UNDISTURBED.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEED.
- ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF BRAINTREE, THE COMMONWEALTH OF MASSACHUSETTS AND ANY OTHER AGENCIES HAVING JURISDICTION.
- THE AREAS WHERE LEDGE CUTS ARE MADE AND WALLS ARE SHOWN SHALL BE ADJUSTED TO UTILIZE THE LEDGE CUT TO MINIMIZE WALL PLACEMENT.
- AN EXTERNAL GREASE TRAP SHALL BE PROVIDED ON FOOD WASTE FROM THE FACILITY AS REQUIRED BY THE ENGINEERING AND SEWER DEPARTMENTS FOR THE CONNECTION PROPOSED.
- ALL SIGNS AND PAVEMENT MARKINGS WITHIN THE FACILITY SHALL COMPLY WITH MUTCD STANDARDS.
- WALKWAYS AROUND THE BUILDING SHALL COMPLY WITH AAB & ADA STANDARDS FOR CONSTRUCTION, MATERIALS AND SLOPES.
- HIGH SILT COMPACT MATERIALS SHALL BE REMOVED FROM WITHIN THE FOOTPRINT OF THE PROPOSED DETENTION BASINS, AND SHALL BE DOCUMENTED BY THE PROJECT ENGINEER.



NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/28/2016	COMMENT RESPONSE
4	08/03/2016	RESOURCE AREA
5	01/13/2017	COMMENT RESPONSE/BLDG FT/PRINT
6	05/16/2017	COMMENT RESPONSE
7	06/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

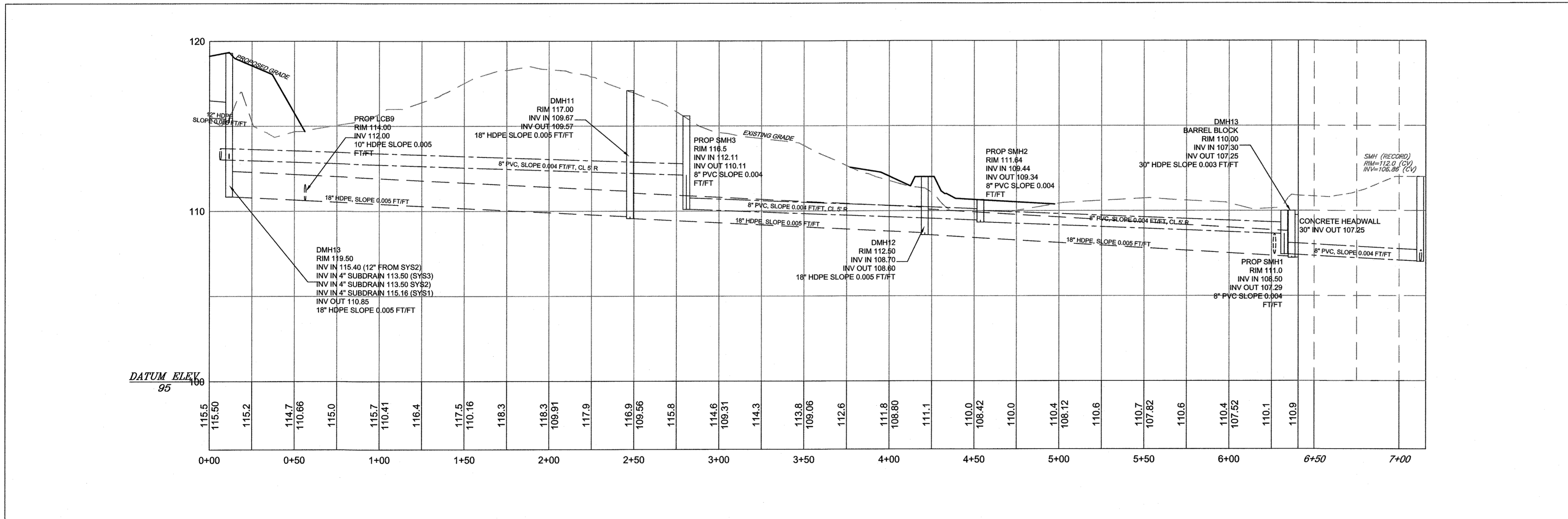
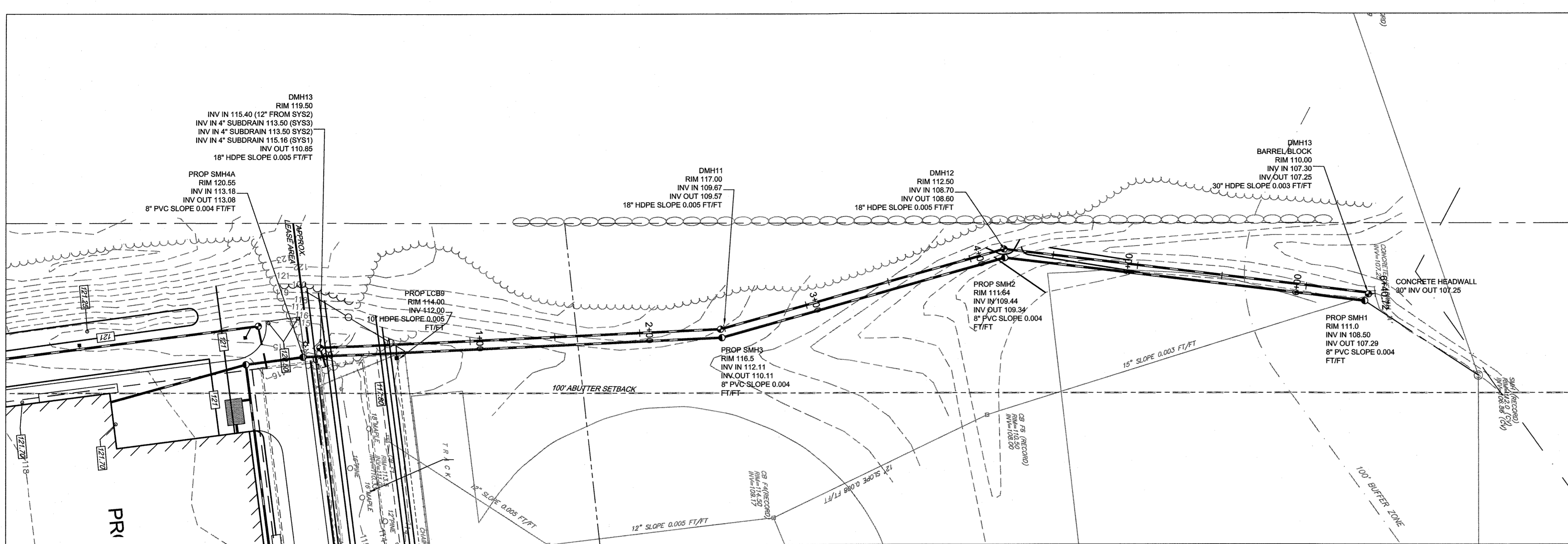
APPROVED DATE: \_\_\_\_\_

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- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

**GRADING AND UTILITY NOTES:**

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- ALL EXISTING PAVEMENT, CURB, WALKS, UTILITIES, LIGHT POLES, TREES, SHRUBS, ETC., SHALL BE REMOVED FROM THE AREAS TO BE DEVELOPED. ALL SUCH ITEMS NOT WITHIN THE WORK AREA SHALL BE PROTECTED AND UNDISTURBED.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEED.
- ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF BRAINTREE, THE COMMONWEALTH OF MASSACHUSETTS AND ANY OTHER AGENCIES HAVING JURISDICTION.
- THE AREAS WHERE LEDGE CUTS ARE MADE AND WALLS ARE SHOWN SHALL BE ADJUSTED TO UTILIZE THE LEDGE CUT TO MINIMIZE WALL PLACEMENT.
- AN EXTERNAL GREASE TRAP SHALL BE PROVIDED ON FOOD WASTE FROM THE FACILITY AS REQUIRED BY THE ENGINEERING AND SEWER DEPARTMENTS FOR THE CONNECTION PROPOSED.
- ALL SIGNS AND PAVEMENT MARKINGS WITHIN THE FACILITY SHALL COMPLY WITH MUTCD STANDARDS.
- WALKWAYS AROUND THE BUILDING SHALL COMPLY WITH AAB & ADA STANDARDS FOR CONSTRUCTION, MATERIALS AND SLOPES.
- DRAINAGE AND SEWER AS THEY ARE INSTALLED CROSS COUNTRY SHALL BE INSTALLED WITH DRAINAGE FIRST AND THE DRAINAGE SHALL UTILIZE PIPE WITH WATERTIGHT GASKETS AND TRENCH DAMNS ALONG THE LENGTH OF INSTALLATION EVERY 100'.
- LOAMY AND HIGH SILT CONTENT MATERIALS SHALL BE REMOVED FROM WITHIN THE FOOTPRINT OF THE PROPOSED DETENTION BASINS, AND SHALL BE DOCUMENTED BY THE PROJECT ENGINEER.
- IN ACCORDANCE WITH CONDITION 25 THE DIRECTIONAL IMPROVEMENTS ARE SHOWN HEREIN. DIRECTIONAL IMPROVEMENTS SHALL BE CONSTRUCTED ONLY UTILIZING SHEET C-2.0 FOR REFERENCE AS AMENDED.



LEGEND	
EXISTING	PROPOSED
---100---	---100---
---D---	---D---
---W---	---W---
---E---	---E---
---G---	---G---
---S---	---S---
---HYDRANT---	---HYDRANT---
---SEWER MANHOLE---	---SEWER MANHOLE---
---DRAIN MANHOLE---	---DRAIN MANHOLE---
---VALVE---	---VALVE---
---D---	---D---
---CURB---	---CURB---
42x45	42x45
HP RAMP	HP RAMP
HAY BALES W/ SILTATION FENCE	HAY BALES W/ SILTATION FENCE
LIGHT POLE	LIGHT POLE
TREE	TREE
UTILITY POLE	UTILITY POLE
POST INDICATOR VALVE	POST INDICATOR VALVE
TRAFFIC DIRECTION	TRAFFIC DIRECTION

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
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 BRAINTREE, MASSACHUSETTS

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 249 SOUTH STREET  
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 PLAINVILLE, MA 02762  
 TEL. (508) 695-2221 FAX. (508) 695-2219

**GRADING & UTILITIES PLAN AND PROFILE**

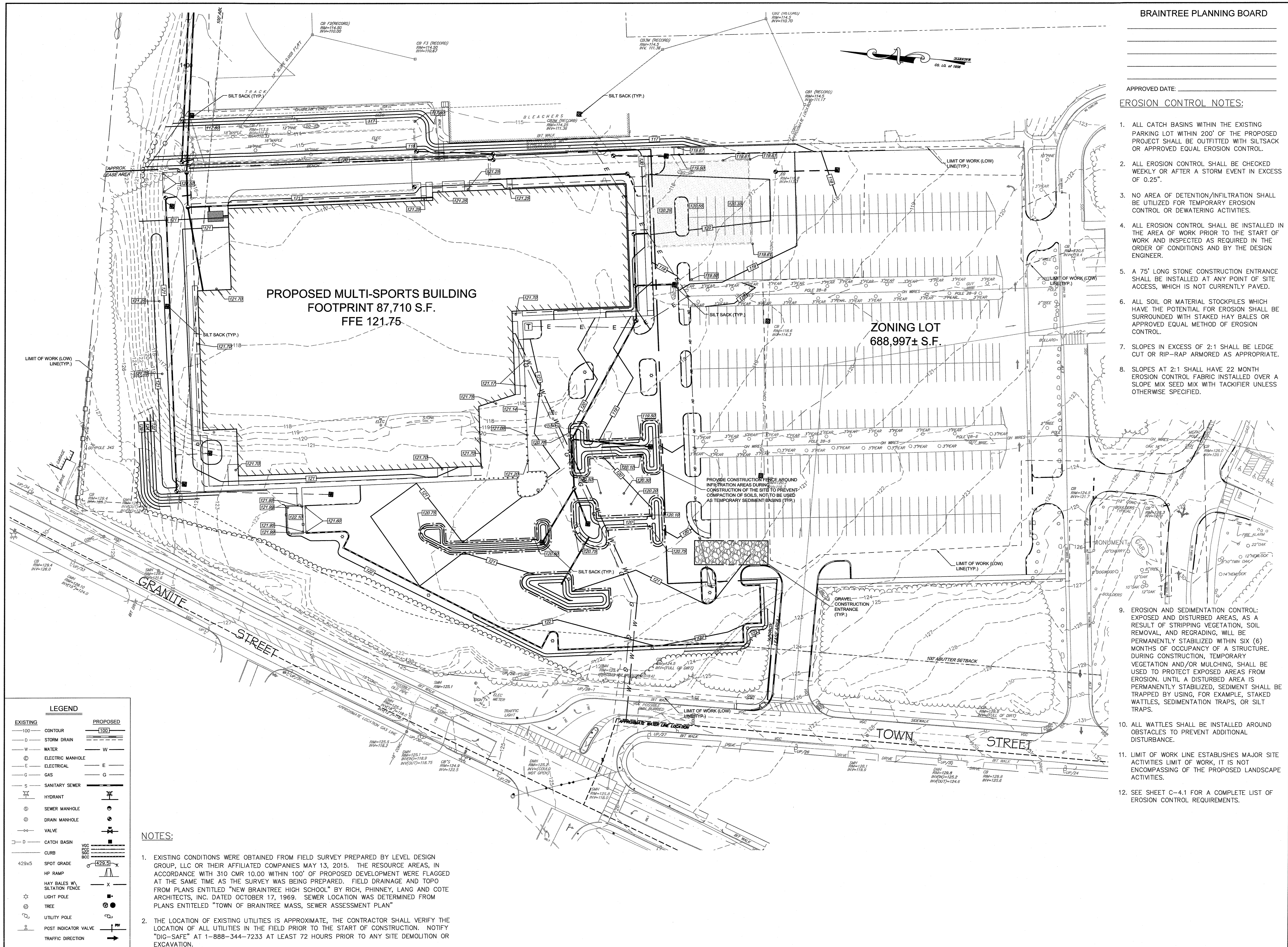
C-3.3

SHEET 9 OF 19

0' 20' 40' 80'

1410.00





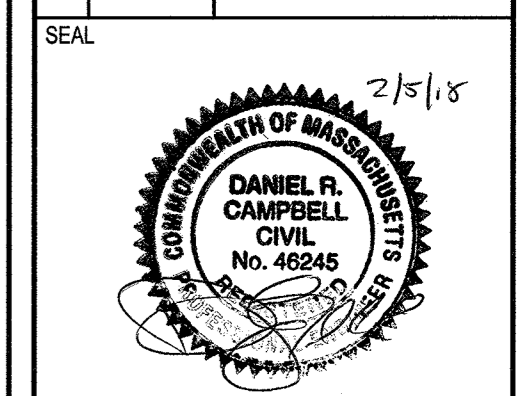
**BRAINTREE PLANNING BOARD**

NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE/BDG FTRPNT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_

**EROSION CONTROL NOTES:**

- ALL CATCH BASINS WITHIN THE EXISTING PARKING LOT WITHIN 200' OF THE PROPOSED PROJECT SHALL BE OUTFITTED WITH SILTSACK OR APPROVED EQUAL EROSION CONTROL.
- ALL EROSION CONTROL SHALL BE CHECKED WEEKLY OR AFTER A STORM EVENT IN EXCESS OF 0.25".
- NO AREA OF DETENTION/INFILTRATION SHALL BE UTILIZED FOR TEMPORARY EROSION CONTROL OR DEWATERING ACTIVITIES.
- ALL EROSION CONTROL SHALL BE INSTALLED IN THE AREA OF WORK PRIOR TO THE START OF WORK AND INSPECTED AS REQUIRED IN THE ORDER OF CONDITIONS AND BY THE DESIGN ENGINEER.
- A 75' LONG STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ANY POINT OF SITE ACCESS, WHICH IS NOT CURRENTLY PAVED.
- ALL SOIL OR MATERIAL STOCKPILES WHICH HAVE THE POTENTIAL FOR EROSION SHALL BE SURROUNDED WITH STAKED HAY BALES OR APPROVED EQUAL METHOD OF EROSION CONTROL.
- SLOPES IN EXCESS OF 2:1 SHALL BE LEDGE CUT OR RIP-RAP ARMORED AS APPROPRIATE.
- SLOPES AT 2:1 SHALL HAVE 22 MONTH EROSION CONTROL FABRIC INSTALLED OVER A SLOPE MIX SEED MIX WITH TACKIFIER UNLESS OTHERWISE SPECIFIED.
- EROSION AND SEDIMENTATION CONTROL: EXPOSED AND DISTURBED AREAS, AS A RESULT OF STRIPPING VEGETATION, SOIL REMOVAL, AND REGRADING, WILL BE PERMANENTLY STABILIZED WITHIN SIX (6) MONTHS OF OCCUPANCY OF A STRUCTURE. DURING CONSTRUCTION, TEMPORARY VEGETATION AND/OR MULCHING, SHALL BE USED TO PROTECT EXPOSED AREAS FROM EROSION. UNTIL A DISTURBED AREA IS PERMANENTLY STABILIZED, SEDIMENT SHALL BE TRAPPED BY USING, FOR EXAMPLE, STAKED WATTLES, SEDIMENTATION TRAPS, OR SILT TRAPS.
- ALL WATTLES SHALL BE INSTALLED AROUND OBSTACLES TO PREVENT ADDITIONAL DISTURBANCE.
- LIMIT OF WORK LINE ESTABLISHES MAJOR SITE ACTIVITIES LIMIT OF WORK, IT IS NOT ENCOMPASSING OF THE PROPOSED LANDSCAPE ACTIVITIES.
- SEE SHEET C-4.1 FOR A COMPLETE LIST OF EROSION CONTROL REQUIREMENTS.



DATE: JULY 30, 2015  
 DRAWN: DRC/NF  
 SCALE: 1" = 40'

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS

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 CIVIL ENGINEERING / LAND SURVEYING  
 249 SOUTH STREET  
 UNIT 1  
 PLAINVILLE, MA 02762  
 TEL. (508) 695-2221 FAX. (508) 695-2219

**EROSION CONTROL**

**C-4.0**

SHEET 10 OF 19

0' 20' 40' 80'

**1410.00**

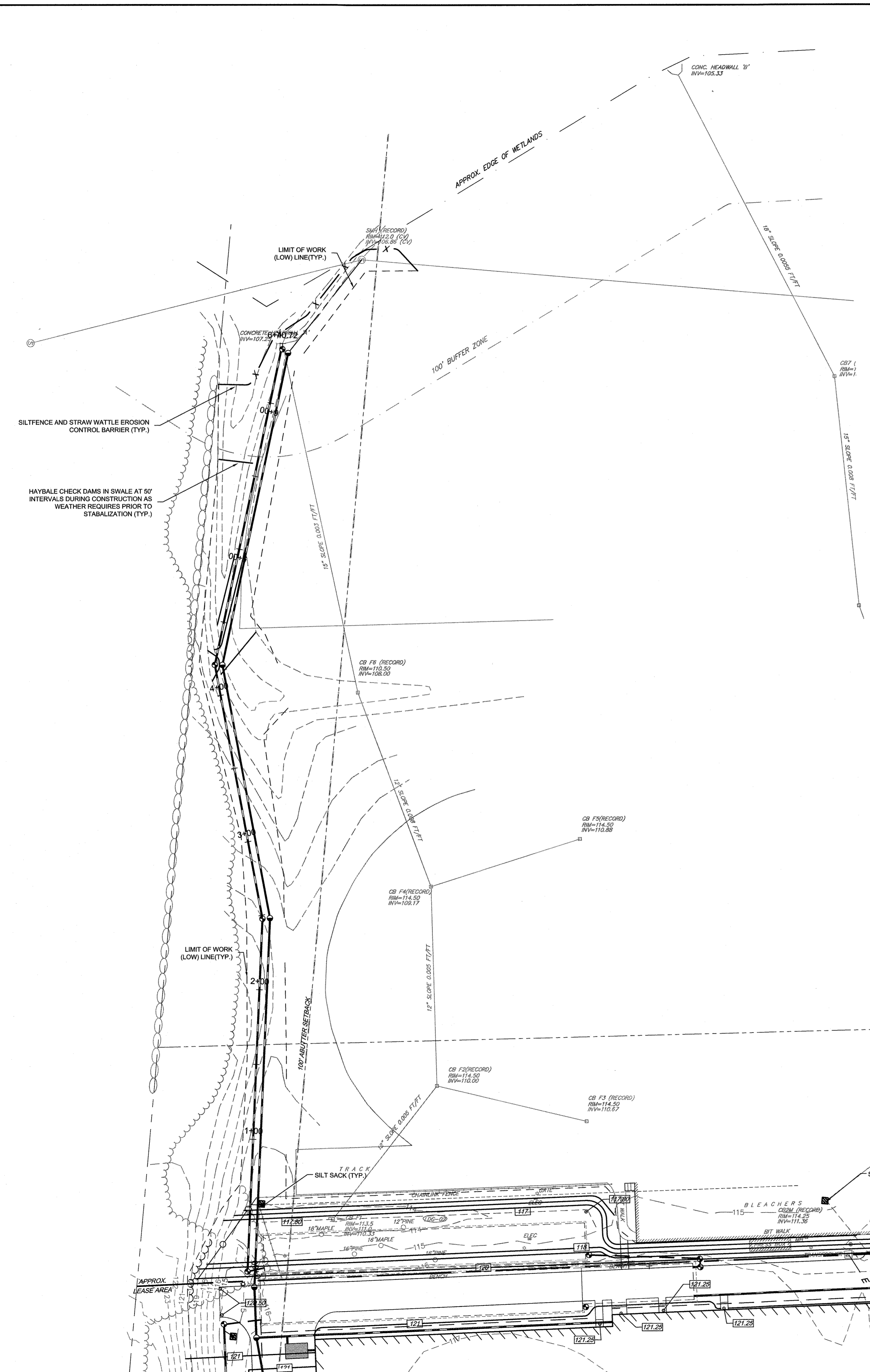
**LEGEND**

EXISTING	PROPOSED
100	100
D	STORM DRAIN
W	WATER
E	ELECTRIC MANHOLE
E	ELECTRICAL
G	GAS
S	SANITARY SEWER
H	HYDRANT
⊙	SEWER MANHOLE
⊙	DRAIN MANHOLE
⊙	VALVE
⊙	CATCH BASIN
—	CURB
42x5	SPOT GRADE
HP	HP RAMP
X	HAY BALES W/ SILTATION FENCE
⊙	LIGHT POLE
⊙	TREE
⊙	UTILITY POLE
⊙	POST INDICATOR VALVE
→	TRAFFIC DIRECTION

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**EROSION CONTROL PLAN NOTES:**

**SILTATION CONTROL USING EROSION CONTROL FENCE WITH STRAW WATTLE, OR APPROVED EQUAL**

EROSION CONTROL LINE IS TO BE VISUALLY INSPECTED AFTER EVERY RAIN FALL AND REPAIRS MADE AS REQUIRED TO THE SILTATION CONTROL FENCE AND STRAW WATTLE AFTER EACH RAIN FALL. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE WATTLE IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE WATTLE APPEARS TO HAVE BEEN INUNDATED WITH SEDIMENT.

**PRESERVE TOPSOIL**

SITE OWNERS AND OPERATORS MUST PRESERVE EXISTING TOPSOIL ON THE CONSTRUCTION SITE TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES IN THE POST-CONSTRUCTION PHASE OF THE PROJECT.

**STABILIZATION OF SOILS**

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

ANY DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED USING THE CONTROL MEASURES DEPICTED IN SITE PLANS, IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, AND PER MANUFACTURER PRODUCT SPECIFICATIONS.

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO CLEAR AND GRUB THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME.

**STORMWATER INLET PROTECTION**

INLET PROTECTION - WILL BE UTILIZED TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. THESE MEASURES ARE USUALLY TEMPORARY AND ARE IMPLEMENTED BEFORE A SITE IS DISTURBED. ALL STORMWATER INLETS &/OR CATCH BASINS THAT ARE OPERATIONAL DURING CONSTRUCTION AND HAVE THE POTENTIAL TO RECEIVE SEDIMENT-LOADED STORMWATER FLOW FROM THE CONSTRUCTION SITE MUST BE PROTECTED USING CONTROL MEASURES OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL FENCE WITH STRAW WATTLES ARE TO BE PLACED AT TO OPENING OF ALL ROUGH GRADED SEDIMENT FOREBAYS UNTIL THE FOREBAY AND BASIN HAS BEEN STABILIZED AND BROUGHT ON-LINE.

MAINTENANCE - THE OPERATOR MUST CLEAN, OR REMOVE AND REPLACE THE INLET PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR AS PERFORMANCE IS COMPROMISED. ACCUMULATED SEDIMENT ADJACENT TO THE INLET PROTECTION MEASURES SHOULD BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING WORK DAY IF REMOVAL BY THE SAME WORK DAY IS NOT FEASIBLE.

INFILTRATION BASINS - ALL AREAS CONTAINING INFILTRATION BASINS (ABOVE OR BELOW GROUND) SHALL BE PROTECTED THROUGHOUT CONSTRUCTION THESE AREAS ARE NOT BE USED FOR MATERIAL STOCKPILES OR FOR PARKING EQUIPMENT. SURFACE BASINS ARE TO BE ROUGH GRADED AND PROTECTED UNTIL STABILIZED AND BROUGHT ON-LINE FOR STORMWATER MANAGEMENT OF THE STABILIZED SITE.

**CONSTRUCTION ENTRANCES**

CONSTRUCTION ENTRANCES SHALL BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF SEDIMENT TRACKING OFF THE PROJECT. ANY CONSTRUCTION SITE ACCESS POINT MUST EMPLOY THE CONTROL MEASURES ON THE APPROVED SITE PLANS AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN. CONSTRUCTION ENTRANCES SHALL BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES. ALL CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.

THE SITE OWNER AND OPERATOR MUST WILL RESTRICT VEHICLE USE TO PROPERLY DESIGNATED EXIT POINTS, USE PROPERLY DESIGNED AND CONSTRUCTED CONSTRUCTION ENTRANCES AT ALL POINTS THAT EXIT ONTO PAVED ROADS SO THAT SEDIMENT REMOVAL OCCURS PRIOR TO VEHICLE EXIT. WHEN AND WHERE NECESSARY, USE ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXIT (I.E. WHEEL WASHING RACKS, RUMBLE STRIPS, AND RATTLE PLATES). WHERE SEDIMENT HAS BEEN TRACKED OUT FROM THE CONSTRUCTION SITE ONTO THE SURFACE OF OFF-SITE STREETS, OTHER PAVED AREAS, AND SIDEWALKS, THE DEPOSITED SEDIMENT MUST BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK OUT OCCURS. TRACK-OUT MUST BE REMOVED BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL.

**STOCKPILE CONTAINMENT**

SHALL BE USED ONSITE TO MINIMIZE OR ELIMINATE THE DISCHARGE OF SOIL, TOPSOIL, BASE MATERIAL OR RUBBLE, FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. ALL STOCKPILES MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE, PROTECTED FROM RUN-ON WITH THE USE OF TEMPORARY SEDIMENT BARRIERS AND PROVIDED WITH COVER OR STABILIZATION TO AVOID CONTACT WITH PRECIPITATION AND WIND WHERE AND WHEN PRACTICAL. STOCK PILE MANAGEMENT CONSISTS OF PROCEDURES AND PRACTICES DESIGNED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL, RUBBLE) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, YOU MUST COMPLY WITH THE FOLLOWING REQUIREMENTS - LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE OUTSIDE OF THE 100-FOOT BUFFER ZONE, PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY PERIMETER SEDIMENT BARRIER; WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE; NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER; TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT FROM WIND.

**TEMPORARY SEDIMENT BASINS**

IF REQUIRED TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED TO MITIGATE THE POTENTIAL SEDIMENT LOADING TO THE ADJACENT RESOURCE AREAS. TEMPORARY SEDIMENT BASINS ARE TO BE LOCATED OUTSIDE OF THE 25-FOOT NO DISTURB ZONE TO THE BORDERING VEGETATED WETLANDS AND SHALL NOT BE LOCATED IN AN AREA WHERE AN INFILTRATION BASIN IS PROPOSED. TEMPORARY SEDIMENT BASIN GRADING LOCATION SHALL BE DICTATED BY THE DESIGN ENGINEER. AT A MINIMUM THE ELEVATION OF THE TEMPORARY SEDIMENT BASIN, AS MEASURED FROM THE BOTTOM OF THE BASE TO THE ELEVATION OF THE CREST OF THE PRINCIPAL SPILLWAY SHALL BE AT LEAST 3,600 CUBIC FEET PER ACRE OF DRAINAGE AREA. THIS 3,600 CUBIC FEET IS EQUIVALENT TO 1.0 INCH OF SEDIMENT PER ACRE OF DRAINAGE AREA. ADDITIONAL STORAGE IN THE FORM OF A PERMANENT WET POOL SHALL BE PROVIDED WHENEVER PRACTICABLE, BUT MAY NOT BE USED TO FULFILL THE TEMPORARY STORAGE VOLUME REQUIREMENT.

SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE VOLUME REMAINING AS DESCRIBED ABOVE IS REDUCED BY SEDIMENTATION TO 1,800 CUBIC FEET PER ACRE OF DRAINAGE AREA (50 PERCENT FULL). IN NO CASE SHALL THE SEDIMENT LEVEL BE PERMITTED TO BUILD UP HIGHER THAN ONE FOOT BELOW THE PRINCIPAL SPILLWAY CREST. AT THIS ELEVATION, CLEANOUT SHALL BE PERFORMED TO RESTORE THE ORIGINAL DESIGN VOLUME TO THE SEDIMENT BASIN. THE ELEVATION OF THE MAXIMUM ALLOWABLE SEDIMENT LEVEL SHALL BE DETERMINED AND SHALL BE STATED IN THE DESIGN DATA AS A DISTANCE BELOW THE TOP OF THE RISER AND BE CLEARLY MARKED ON THE RISER.

**BRAINTREE PLANNING BOARD**

NO.	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
4	08/03/2016	RESOURCE AREA
5	01/13/2017	COMMENT RESPONSE/BLDG FTRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_

**EROSION CONTROL NOTES:**

- ALL CATCH BASINS WITHIN THE EXISTING PARKING LOT WITHIN 200' OF THE PROPOSED PROJECT SHALL BE OUTFITTED WITH SILTSACK OR APPROVED EQUAL EROSION CONTROL.
- ALL EROSION CONTROL SHALL BE CHECKED WEEKLY OR AFTER A STORM EVENT IN EXCESS OF 0.25".
- NO AREA OF DETENTION SHALL BE UTILIZED FOR TEMPORARY EROSION CONTROL OR DEWATERING ACTIVITIES.
- ALL EROSION CONTROL SHALL BE INSTALLED IN THE AREA OF WORK PRIOR TO THE START OF WORK AND INSPECTED AS REQUIRED IN THE ORDER OF CONDITIONS AND BY THE DESIGN ENGINEER.
- A 75' LONG STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ANY POINT OF SITE ACCESS, WHICH IS NOT CURRENTLY PAVED.
- ALL SOIL OR MATERIAL STOCKPILES WHICH HAVE THE POTENTIAL FOR EROSION SHALL BE SURROUNDED WITH STAKED HAY BALES OR APPROVED EQUAL METHOD OF EROSION CONTROL.
- ALL TEMPORARY SOIL DISTURBANCE WITHIN THE WETLAND AREA TO THE EAST SHALL STOCKPILE ALL SOILS TO THE B HORIZON. ALL UTILITIES SHALL BE INSTALLED AND BACKFILLED IN ACCORDANCE WITH ORIGINAL HORIZONS. DISTURBED AREA SHALL BE SEEDED WITH CONSERVATION SEED MIX OR APPROVED EQUAL AND KEPT MOIST UNTIL GERMINATION. STRAW WATTLE SHALL BE INSTALLED DOWNSTREAM FROM WORK AREA TO PREVENT MATERIAL TRANSPORT IN THE EVENT OF A STORM EVENT. ALL STOCKPILED SOILS SHALL BE KEPT MOIST THROUGHOUT CONSTRUCTION.
- SLOPES IN EXCESS OF 2:1 SHALL BE LEDGE CUT OR RIP-RAP ARMORED AS APPROPRIATE.
- SLOPES AT 2:1 SHALL HAVE 22 MONTH EROSION CONTROL FABRIC INSTALLED OVER A SLOPE MIX SEED MIX WITH TACKIFIER UNLESS OTHERWISE SPECIFIED.
- EROSION AND SEDIMENTATION CONTROL: EXPOSED AND DISTURBED AREAS, AS A RESULT OF STRIPPING VEGETATION, SOIL REMOVAL, AND REGRADING, WILL BE PERMANENTLY STABILIZED WITHIN SIX (6) MONTHS OF OCCUPANCY OF A STRUCTURE. DURING CONSTRUCTION, TEMPORARY VEGETATION AND/OR MULCHING, SHALL BE USED TO PROTECT EXPOSED AREAS FROM EROSION. UNTIL A DISTURBED AREA IS PERMANENTLY STABILIZED, SEDIMENT SHALL BE TRAPPED BY USING, FOR EXAMPLE, STAKED WATTLES, SEDIMENTATION TRAPS, OR SILT TRAPS.
- ALL WATTLES SHALL BE INSTALLED AROUND OBSTACLES TO PREVENT ADDITIONAL DISTURBANCE.
- LIMIT OF WORK LINE ESTABLISHES MAJOR SITE ACTIVITIES LIMIT OF WORK, IT IS NOT ENCOMPASSING OF THE PROPOSED LANDSCAPE ACTIVITIES.

**NOTES:**

- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC OR THEIR AFFILIATED COMPANIES MAY 13, 2015. THE RESOURCE AREAS, IN ACCORDANCE WITH 310 CMR 10.00 WITHIN 100' OF PROPOSED DEVELOPMENT WERE FLAGGED AT THE SAME TIME AS THE SURVEY WAS BEING PREPARED. THE RESOURCE AREAS ADJACENT TO DISCHARGE ARE PER THE MASSGIS MAPPING AND ARE APPROXIMATE BUT WORST CASE REPRESENTATION OF THE WETLAND BOUNDARY IN THE FIELD DISCHARGE AREA. FIELD DRAINAGE AND TOPO FROM PLANS ENTITLED "NEW BRAINTREE HIGH SCHOOL" BY RICH, PHINNEY, LANG AND COTE ARCHITECTS, INC. DATED OCTOBER 17, 1969. SEWER LOCATION WAS DETERMINED FROM PLANS ENTITLED "TOWN OF BRAINTREE MASS, SEWER ASSESSMENT PLAN"
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

**CONSTRUCTION SEQUENCING**

- INSTALL EROSION AND SEDIMENT CONTROLS.
- REMOVE EXISTING PAVEMENT AND STRUCTURES IN DESIGNATED AREAS.
- ROUGH GRADE SITE.
- INSTALL STORMWATER MANAGEMENT SYSTEM AND SITE UTILITIES.
- INSTALL MITIGATION PLANTINGS
- INSTALL BUILDING FOUNDATION;
- FINE GRADE SITE AND LOAM AND SEED ALL DISTURBED AREAS;
- PLACE BINDER COAT PAVEMENT AND BRING DRAINAGE SYSTEM ON LINE, WITH INLET PROTECTION INSTALLED FOR ALL NEWLY INSTALLED APPURTENANCES;
- INSTALL REMAINING LANDSCAPING;
- PLACE TOP COAT PAVEMENT;
- PROJECT CLOSE OUT.

**LEGEND**

EXISTING	PROPOSED
100	100
D	STORM DRAIN
W	WATER
EM	ELECTRIC MANHOLE
E	ELECTRICAL
G	GAS
S	SANITARY SEWER
H	HYDRANT
SM	SEWER MANHOLE
DM	DRAIN MANHOLE
V	VALVE
D	CATCH BASIN
CURB	CURB
42x5	SPOT GRADE
HP RAMP	HP RAMP
HAY BALES W/ SILTATION FENCE	HAY BALES W/ SILTATION FENCE
LIGHT POLE	LIGHT POLE
TREE	TREE
UTILITY POLE	UTILITY POLE
POST INDICATOR VALVE	POST INDICATOR VALVE
TRAFFIC DIRECTION	TRAFFIC DIRECTION

NO.	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
4	08/03/2016	RESOURCE AREA
5	01/13/2017	COMMENT RESPONSE/BLDG FTRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

DATE: JULY 30, 2015  
 DRAWN: DRG / NF  
 SCALE: 1" = 40'

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS

**LEVEL**  
 DESIGN GROUP  
 CIVIL ENGINEERING / LAND SURVEYING  
 249 SOUTH STREET  
 UNIT 1  
 PLAINVILLE, MA 02762  
 TEL. (508) 695-2221 FAX. (508) 695-2219

**EROSION CONTROL**

**C-4.1**

SHEET 11 OF 19

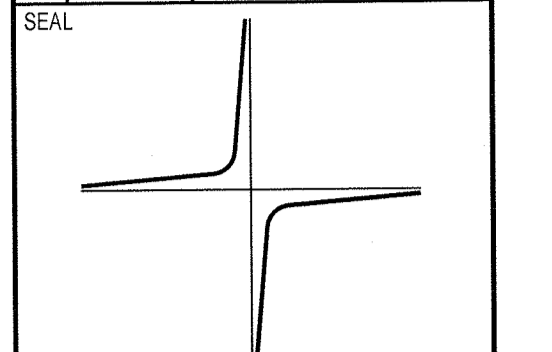
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**1410.00**



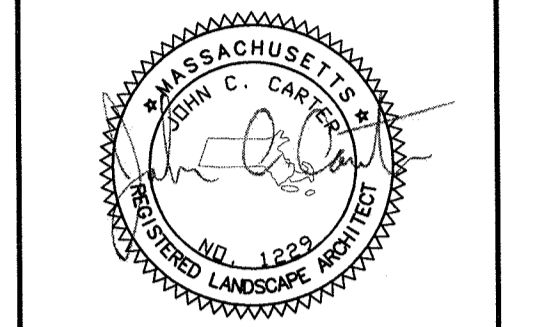
NO.	DATE	REVISIONS
1	11-24-15	LAYOUT MODIFICATIONS
2	5-23-16	PLANTINGS PER TOWN COMMENTS
3	8-2-16	PLANTINGS PER LAYOUT MODIFICATIONS
4	1-27-17	PLANTINGS PER LAYOUT MODIFICATIONS

APPROVED DATE:

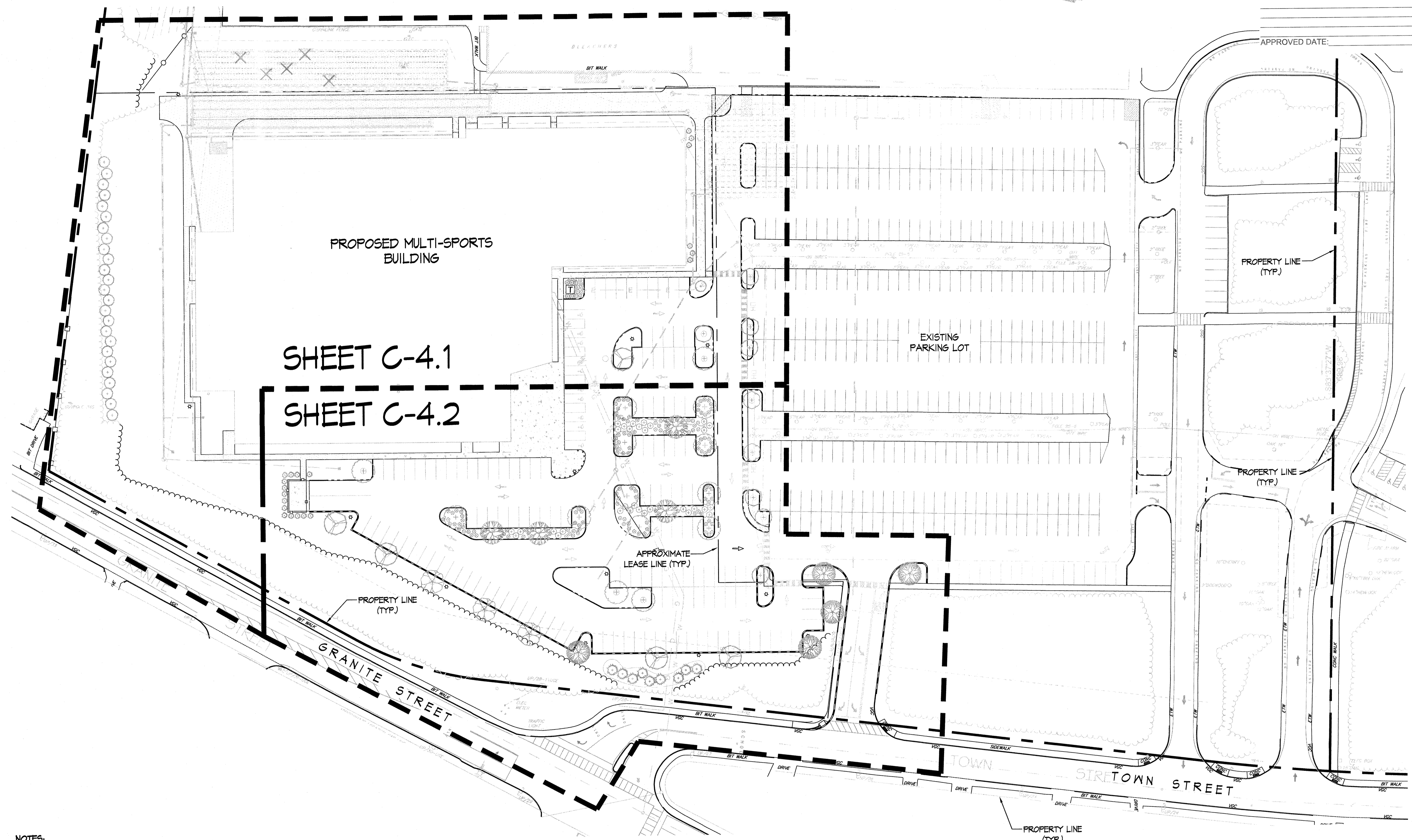


JOHN C. CARTER & CO., INC.  
960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783-3500

LANDSCAPE ARCHITECTURE  
DESIGN & BUILD



DATE: NOVEMBER 13, 2015  
DRAWN: LMN  
SCALE: 1" = 20'

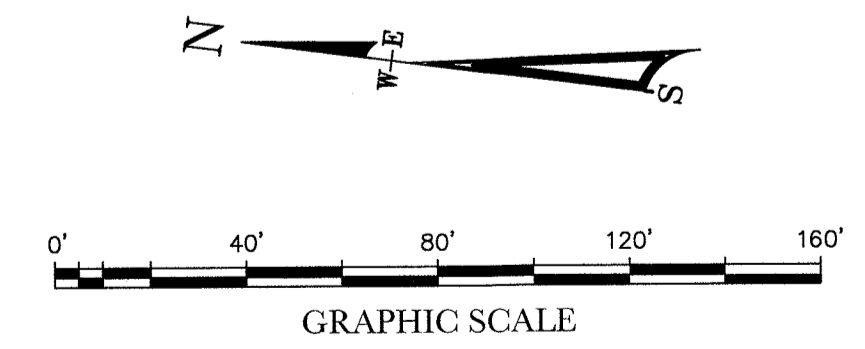


SHEET C-4.1  
SHEET C-4.2

- NOTES:**
- GENERAL:**
- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC OR THEIR AFFILIATED COMPANIES MAY 13, 2015. THE RESOURCE AREAS, IN ACCORDANCE WITH 910 CMR 10.00 WITHIN 100' OF PROPOSED DEVELOPMENT WERE FLAGGED AT THE SAME TIME AS THE SURVEY WAS BEING PREPARED.
  - THE PROPERTY LINES AS DEPICTED ON THIS PLAN ARE PICTORIAL ONLY. THIS PLAN IS TO BE USED FOR THE SELECTION, LOCATION AND INSTALLATION OF PLANT MATERIALS AND LANDSCAPE MASONRY ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. ALL LAYOUT, FOUNDATIONS, RETAINING WALLS AND DRAINAGE COMPONENTS SHALL BE STAKED OUT BY THE ENGINEER OR SURVEYOR.
  - WRITTEN DIMENSIONS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
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**LEGEND**

SHEET MATCH LINE		EXISTING TREES TO REMAIN	
PROPERTY LINE		EXISTING TREES TO BE REMOVED	
APPROX. LEASE LINE		SHRUBS / PERENNIALS / GRASSES	
APPROX. GAS LINE		EVERGREEN TREES	
APPROX. WATER LINE		ORNAMENTAL TREE OR LARGE SHRUB	
APPROX. ELECTRIC LINE		SHADE TREES	
APPROX. OVERHEAD WIRE			
APPROX. DRAINAGE STRUCTURES			
LIGHTS (BY OTHERS)			
PLANT CALL OUT			
EXISTING VEGETATION TO REMAIN			



**BRAINTREE SPORTS CENTER**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL. (508) 935-2221 FAX. (508) 695-2219

LANDSCAPE  
KEY PLAN

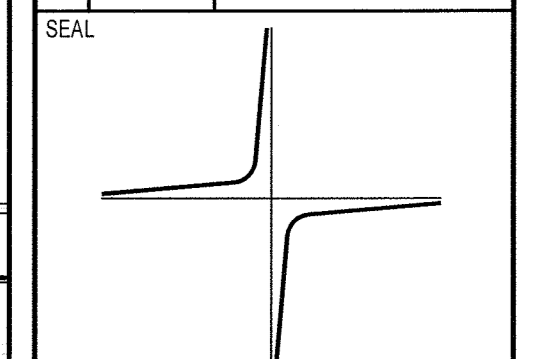
**C-5.0**  
SHEET 12 OF 19

1410.00



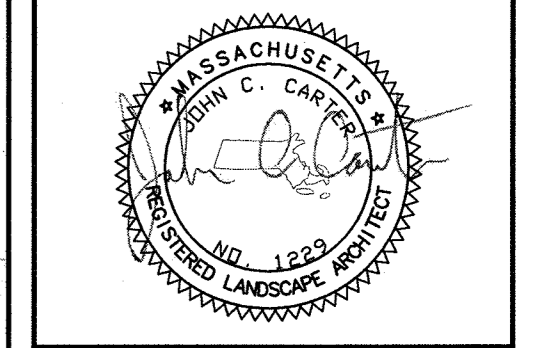
NO.	DATE	REVISIONS
1	11-24-16	LAYOUT MODIFICATIONS
2	5-23-16	PLANTINGS PER TOWN COMMENTS
3	8-2-16	PLANTINGS PER LAYOUT MODIFICATIONS
4	1-27-17	PLANTINGS PER LAYOUT MODIFICATIONS
5	8-10-17	PLANTINGS PER LAYOUT MODIFICATIONS

APPROVED DATE: \_\_\_\_\_



JOHN C. CARTER & CO., INC.  
960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783-3500

LANDSCAPE ARCHITECTURE  
DESIGN & BUILD



DATE: NOVEMBER 13, 2015  
DRAWN: LMW  
SCALE: 1" = 20'

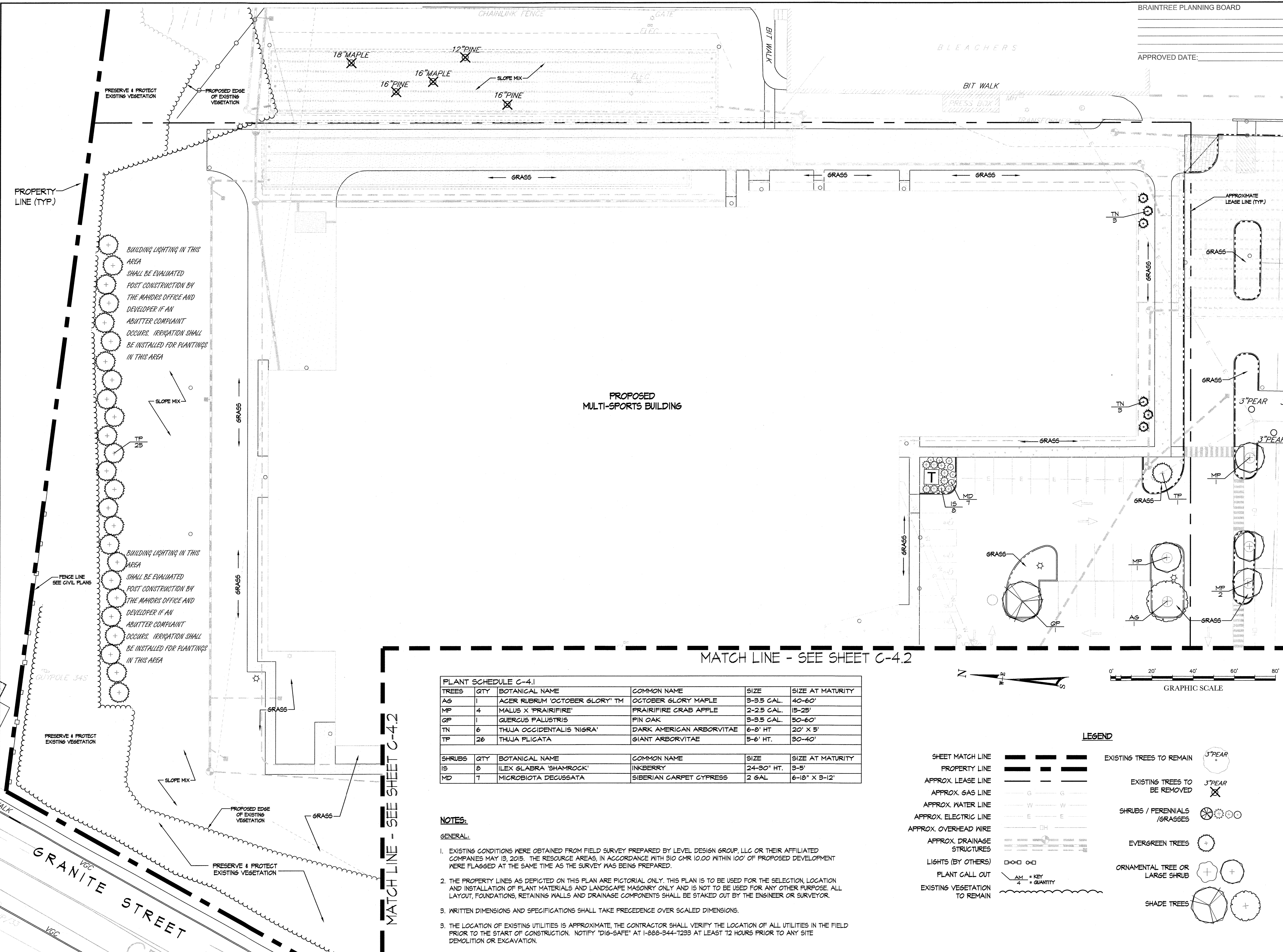
**BRAINTREE SPORTS CENTER**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL. (508) 695-2221 FAX. (508) 695-2219

**PLANTING PLAN**

**C-5.1**  
SHEET 13 OF 19

1410.00



PROPOSED  
MULTI-SPORTS BUILDING

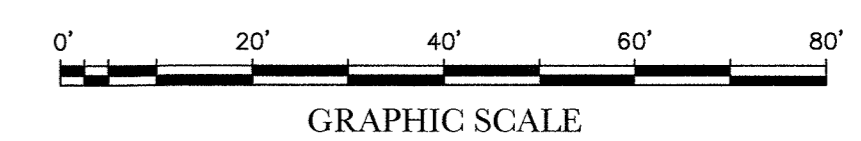
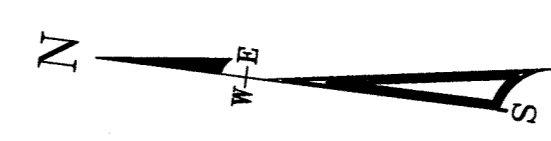
MATCH LINE - SEE SHEET C-4.2

PLANT SCHEDULE C-4.1					
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE AT MATURITY
AG	1	ACER RUBRUM 'OCTOBER GLORY'™	OCTOBER GLORY MAPLE	3-3.5 CAL.	40-60'
MP	4	MALUS X 'PRAIRIFIRE'	PRAIRIFIRE CRAB APPLE	2-2.5 CAL.	15-25'
QP	1	QUERCUS PALUSTRIS	PIN OAK	3-3.5 CAL.	50-60'
TN	6	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	6-8' HT.	20' X 5'
TP	26	THUJA PLICATA	GIANT ARBORVITAE	5-6' HT.	30-40'
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE AT MATURITY
IS	8	ILEX GLABRA 'SHAMROCK'	INKBERRY	24-30" HT.	3-5'
MD	7	MICROBIOTA DECUSSATA	SIBERIAN CARPET CYPRESS	2 GAL.	6-18" X 3-12'

**NOTES:**

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**LEGEND**

- SHEET MATCH LINE: [Symbol]
- PROPERTY LINE: [Symbol]
- APPROX. LEASE LINE: [Symbol]
- APPROX. GAS LINE: [Symbol]
- APPROX. WATER LINE: [Symbol]
- APPROX. ELECTRIC LINE: [Symbol]
- APPROX. OVERHEAD WIRE: [Symbol]
- APPROX. DRAINAGE STRUCTURES: [Symbol]
- LIGHTS (BY OTHERS): [Symbol]
- PLANT CALL OUT: [Symbol]
- EXISTING VEGETATION TO REMAIN: [Symbol]
- EXISTING TREES TO REMAIN: [Symbol]
- EXISTING TREES TO BE REMOVED: [Symbol]
- SHRUBS / PERENNIALS / GRASSES: [Symbol]
- EVERGREEN TREES: [Symbol]
- ORNAMENTAL TREE OR LARGE SHRUB: [Symbol]
- SHADE TREES: [Symbol]

BUILDING LIGHTING IN THIS AREA SHALL BE EVALUATED POST CONSTRUCTION BY THE MAYORS OFFICE AND DEVELOPER IF AN ABUTTER COMPLAINT OCCURS. IRRIGATION SHALL BE INSTALLED FOR PLANTINGS IN THIS AREA

BUILDING LIGHTING IN THIS AREA SHALL BE EVALUATED POST CONSTRUCTION BY THE MAYORS OFFICE AND DEVELOPER IF AN ABUTTER COMPLAINT OCCURS. IRRIGATION SHALL BE INSTALLED FOR PLANTINGS IN THIS AREA

MATCH LINE - SEE SHEET C-4.2

GRANITE STREET

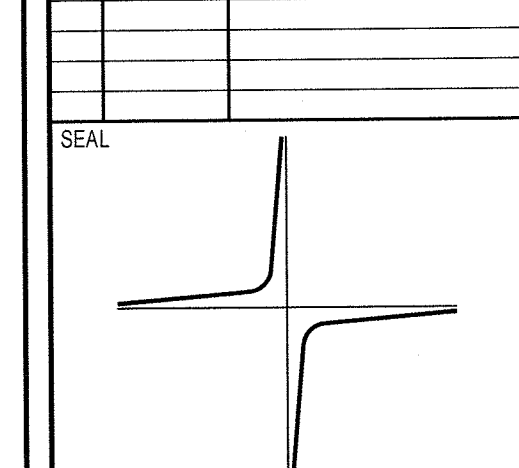


MATCH LINE - SEE SHEET C-4.1

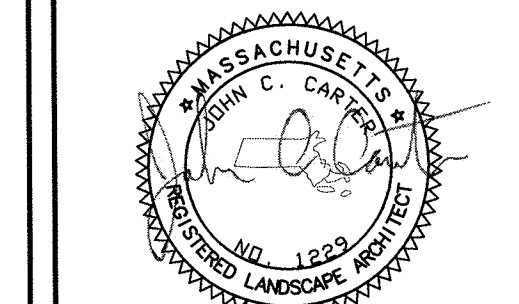
BRAINTREE PLANNING BOARD

NO.	DATE	REVISIONS
1	11-24-15	LAYOUT MODIFICATIONS
2	5-23-16	PLANTINGS PER TOWN COMMENTS
3	8-2-16	PLANTINGS PER LAYOUT MODIFICATIONS
4	1-27-17	PLANTINGS PER LAYOUT MODIFICATIONS
5	8-10-17	PLANTINGS PER LAYOUT MODIFICATIONS

APPROVED DATE:



JOHN C. CARTER & CO., INC.  
960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783-3500  
LANDSCAPE ARCHITECTURE  
DESIGN & BUILD



DATE: NOVEMBER 13, 2015  
DRAWN: LMW  
SCALE: 1" = 20'

**BRAINTREE SPORTS CENTER**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

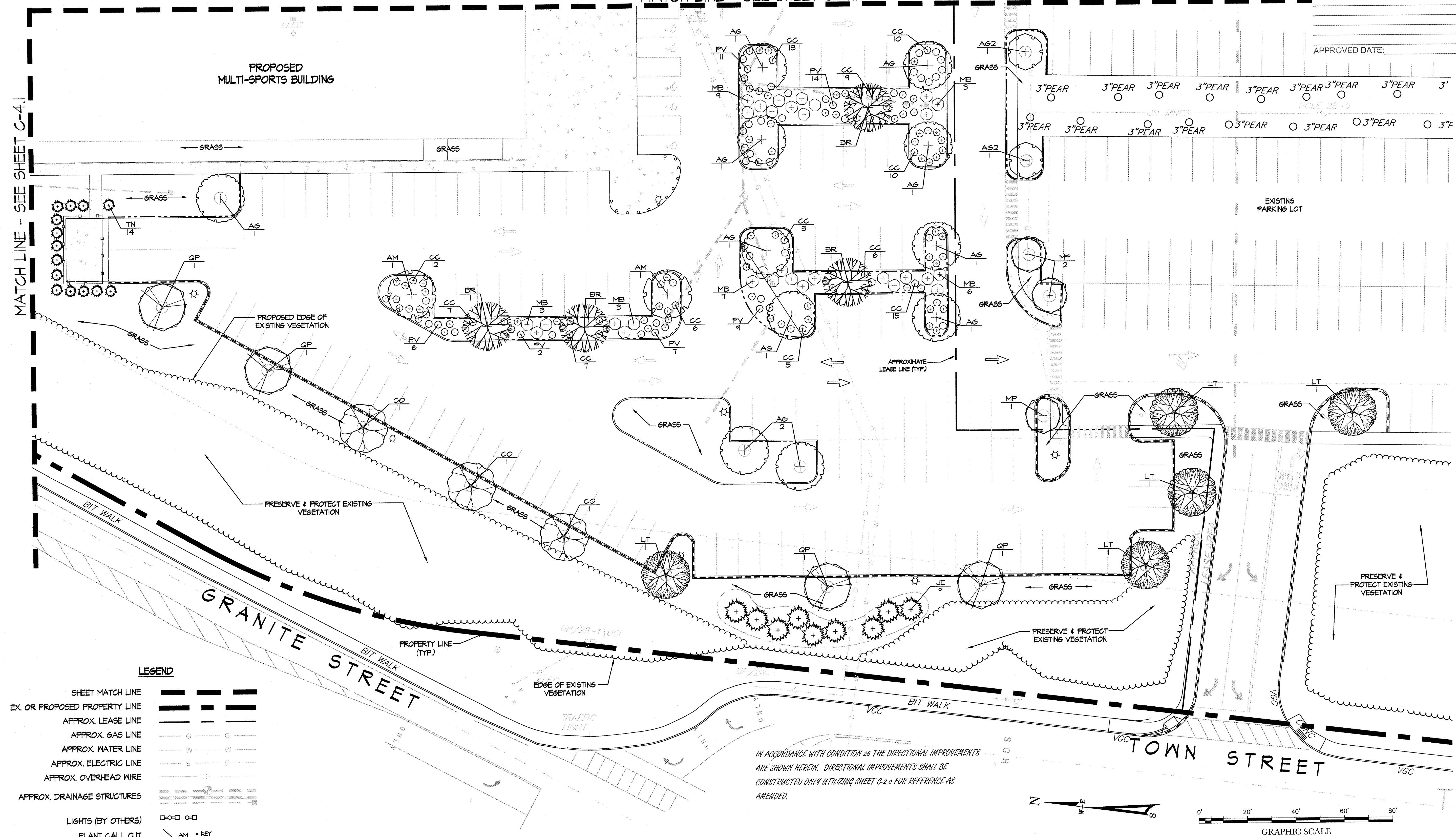
**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL: (508) 695-2221 FAX: (508) 695-2219

**PLANTING PLAN**

**C-5.2**  
SHEET 14 OF 19

1410.00

MATCH LINE - SEE SHEET C-4.1



**LEGEND**

SHEET MATCH LINE	---
EX. OR PROPOSED PROPERTY LINE	---
APPROX. LEASE LINE	---
APPROX. GAS LINE	G --- G
APPROX. WATER LINE	W --- W
APPROX. ELECTRIC LINE	E --- E
APPROX. OVERHEAD WIRE	OH --- OH
APPROX. DRAINAGE STRUCTURES	---
LIGHTS (BY OTHERS)	○-○-○ ○-○-○
PLANT CALL OUT	AM = KEY 4 = QUANTITY
EXISTING VEGETATION TO REMAIN	---
EXISTING TREES	3"PEAR
SHRUBS / PERENNIALS/GRASSES	○ ⊕ ⊕ ⊕ ⊕
EVERGREEN TREES	⊕ ⊕
ORNAMENTAL TREE OR LARGE SHRUB	⊕ ⊕
SHADE TREES	⊕ ⊕ ⊕ ⊕ ⊕ ⊕

IN ACCORDANCE WITH CONDITION 28 THE DIRECTIONAL IMPROVEMENTS ARE SHOWN HEREIN. DIRECTIONAL IMPROVEMENTS SHALL BE CONSTRUCTED ONLY UTILIZING SHEET C-2.0 FOR REFERENCE AS AMENDED.

- NOTES:**
- GENERAL:**
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**PLANT SCHEDULE C-4.2**

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE AT MATURITY
AG	11	ACER RUBRUM 'OCTOBER GLORY' TM	OCTOBER GLORY MAPLE	3-3.5 CAL.	40-60'
AM	2	ACER SACCHARUM 'GREEN MOUNTAIN' TM	GREEN MOUNTAIN SUGAR MAPLE	3-3.5 CAL.	50-60'
AG2	2	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	'AUTUMN BRILLIANCE' SERVICEBERRY	2-2.5 CAL.	20-25'
BR	4	BETULA NIGRA	RIVER BIRCH	3-3.5 CAL.	40-70' X 40-60'
CO	3	CELTIS OCCIDENTALIS	COMMON HACKBERRY	3-3.5 CAL.	40-60'
JE	1	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HT	40-50' X 8-20'
LT	5	LIRIODENDRON TULIPIFERA	TULIP TREE	3-3.5 CAL.	70-90' X 35-50'
MP	3	MALUS X 'PRAIRIFIRE'	PRAIRIFIRE CRAB APPLE	2-2.5 CAL.	15-25'
QP	4	QUERCUS PALUSTRIS	PIN OAK	3-3.5 CAL.	50-60'
TN	14	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	6-8' HT	20' X 5'
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE AT MATURITY
CC	103	CLETHRA ALNIFOLIA 'CRYSTALLINA' TM	SUGARTINA SUMMERSWEET	18-24" HT	3' X 3'
MB	31	MORELLA (MYRICA) PENNSYLVANICA	BAYBERRY	24-30" HT.	5-12'
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE AT MATURITY
FV	49	PANICUM VIRGATUM	SWITCH GRASS	1 GAL	2-3' X 3'-4'



**NOTES:**

**GENERAL:**

- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC OR THEIR AFFILIATED COMPANIES MAY 18, 2015. THE RESOURCE AREAS, IN ACCORDANCE WITH 910 CMR 10.00 WITHIN 100' OF PROPOSED DEVELOPMENT WERE FLAGGED AT THE SAME TIME AS THE SURVEY WAS BEING PREPARED.
- THE PROPERTY LINES AS DEPICTED ON THIS PLAN ARE PICTORIAL ONLY. THIS PLAN IS TO BE USED FOR THE SELECTION, LOCATION AND INSTALLATION OF PLANT MATERIALS ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. ALL LAYOUT, FOUNDATIONS, RETAINING WALLS AND DRAINAGE COMPONENTS SHALL BE STAKED OUT BY THE ENGINEER OR SURVEYOR.
- WRITTEN DIMENSIONS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- THE LOCATION OF THE UTILITIES ARE NOTE SHOWN ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY EXCAVATION. DIG-SAFE SHALL BE CONTACTED AT LEAST 72 HOURS BEFORE EXCAVATION. DIG-SAFE CAN BE REACHED AT 1-888-344-1233.

**TREE AND SHRUB PLANTING BED PREPARATION:**

ALL TREE AND SHRUB PLANTING BEDS ARE TO BE TREATED AS FOLLOWS:

- ALL PLANTING BEDS ARE TO BE EXCAVATED TO A DEPTH OF 8" BELOW FINISHED GRADE.
- THE BOTTOM OF THE PLANTING BEDS ARE TO BE SCARIFIED TO ENCOURAGE DRAINAGE AND PREVENT COMPACTION.
- ALL PLANTING BEDS ARE TO BE BACKFILLED WITH 8" OF LOOSE, FRIABLE, ORGANIC LOAM OR COMPOST.

**PLANTING:**

- PROVIDE QUALITY PLANTS IN THE GENUS, SPECIES AND VARIETY INDICATED IN THE PLANT SCHEDULE, COMPLYING WITH APPLICABLE REQUIREMENTS OF "ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK."
- PROVIDE PLANTS IN THE SIZE AND NUMBER INDICATED IN THE PLANT SCHEDULE. PLANTS SHALL BE GROWN IN NURSERIES LOCATED IN THE NORTHEASTERN U.S.
- DELIVER FRESH DUG TREES WHICH ARE BALLED AND BURLAPPED, AND SHRUBS WHICH ARE BALLED AND BURLAPPED OR IN NURSERY CONTAINERS. ALL PLANTS ARE TO BE HEALTHY, VIGOROUS AND FREE OF INSECTS AND DISEASE.
- PLANTS ARE TO BE INSTALLED AS SPECIFIED IN THE PLANTING DETAILS WITH ADEQUATE WATER PROVIDED DURING PLANTING TO ALLOW COMPACTION OF THE PLANTING SOIL TO PREVENT ANY AIR POCKETS OR SETTLEMENT AFTER PLANTING.
- ALL PLANTING BEDS ARE TO BE COVERED WITH 2" SHREDDED PINE BARK MULCH.
- AFTER THE TREES AND SHRUBS ARE PLANTED, THE DISTURBED AREAS BETWEEN THE PLANTING BEDS SHALL BE LOAMED AND SEEDED WITH A SEED MIX AS SPECIFIED IN THE LOAMING AND SEEDING NOTES.
- ALL DECIDUOUS AND EVERGREEN TREES OVER 5' TALL ARE TO BE STAKED AS SHOWN IN THE PLANTING DETAILS. TREES ARE TO REMAIN PLUMB AND SHALL BE ADJUSTED AS NEEDED. ALL STAKES AND ARBOR TIES ARE TO BE MAINTAINED AND ADJUSTED TO PREVENT GIRDLING OF THE TRUNK AND REMOVED WHEN NO LONGER NEEDED.
- RECOMMENDED PLANTING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
- PLANT SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY ONLY AND MAY BE MADE WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.
- THE CONTRACTOR SHALL WARRANTY ALL PLANTINGS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.

**LOAMING & SEEDING:**

- AFTER ROUGH GRADING IS COMPLETED, ALL DISTURBED AREAS WHICH ARE LABELED AS "GRASS" ARE TO BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE. IF COMPACTED, THE SUBGRADE IS TO BE SCARIFIED TO A DEPTH OF 12" WITH THE TEETH OF A BACKHOE TO RESULT IN AN UNCOMPACTED SUBSOIL. THEN 6" OF GOOD QUALITY TOPSOIL IS TO BE APPLIED AND RAKED TO FINISHED GRADE.
- THE TOPSOIL IS TO BE GOOD QUALITY LOAM, FERTILE AND FREE OF WEEDS, STICKS AND STONES OVER 3/4" IN SIZE AND OTHERWISE COMPLYING WITH SECTION 105.05 OF THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES.
- PRIOR TO SEEDING, FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 1-2" OF THE PLANTING SOIL. APPLY AT A RATE OF 10-12 LBS. PER 1000 SQUARE FEET.
- LIME IS TO BE APPLIED AT A RATE OF ONE TON PER ACRE AND UNIFORMLY INCORPORATED INTO THE TOP 1-2" OF TOPSOIL.

**SEEDING**

THE AREAS LABELED AS "GRASS" SHALL BE SEEDED WITH **DARK & DURABLE MIX**. AREAS LABELED AS "SLOPE MIX" SHALL BE SEEDED WITH **MASS STATE SLOPE MIX** (AVAILABLE FROM VALLEY GREEN, INC. 642 S. SUMMER STREET, HOLYOKE, MA 01040 (800) 862-0089 OR APPROVED EQUAL.

AFTER THE SEED BED IS PREPARED, SEED IS TO BE BROADCAST EVENLY OVER THE SURFACE AND WORKED INTO THE TOP 1" OF SOIL.

**DARK & DURABLE MIX**  
APPLY AT A RATE OF: 8-10 LBS / 1,000 SQ. FT.

- 27% FURY TALL FESCUE
- 27% CORONADO TALL FESCUE
- 26% INDEAVOR TALL FESCUE
- 10% 1Q PERENNIAL RYEGRASS
- 10% BROOKLAWN KENTUCKY BLUEGRASS

**MASS STATE SLOPE MIX**  
APPLY AT A RATE OF: 5-6 LBS / 1,000 SQ. FT.

- 50% CREEPING RED FESCUE
- 30% TALL FESCUE
- 10% ANNUAL RYEGRASS
- 5% RED TOP
- 5% LADINO CLOVER

RECOMMENDED SEEDING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.

RATHER THAN SEEDING AS DESCRIBED ABOVE, THE CONTRACTOR MAY HYDROSEED USING AN EQUIVALENT SEED MIX.

**SEED MIXES**

- PROVIDE QUALITY SEED DERIVED FROM THE VARIETY INDICATED UNDER 'SEEDING'.
- ALL SEED IS TO BE VIABLE, HEALTHY AND FREE OF INSECTS AND DISEASE.
- SEED IS TO BE INSTALLED AS SPECIFIED IN THE SEEDING NOTES WITH ADEQUATE WATER PROVIDED TO ESTABLISH A HEALTHY GRASS PATCH.
- RECOMMENDED SEEDING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15. LATE FALL AND WINTER DORMANT SEEDING REQUIRE AN INCREASE IN THE SEEDING RATE.
- SEED SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY ONLY WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.

**TOWN OF BRAINTREE, MASSACHUSETTS**

THESE PLANTING PLANS ARE INTENDED TO ADDRESS THE LANDSCAPING REQUIREMENTS NOTED IN THE ZONING BY-LAWS OF THE TOWN OF BRAINTREE, MASSACHUSETTS.

**SECTION 135-812. LANDSCAPING REQUIREMENTS**

C. A MINIMUM TEN-FOOT-WIDE LANDSCAPED STRIP SHALL BE PROVIDED ALONG PROPERTY LINES PARALLEL TO ANY PUBLIC OR PRIVATE STREET WHEN PARKING OR CIRCULATION AREAS ADJUT SAID STREET.

WHERE PARKING AREAS OR CIRCULATION AREAS ADJUT A PUBLIC OR PRIVATE STREET, A LANDSCAPE STRIP AT LEAST TEN-FOOT-WIDE IS PROVIDED.

D. A MINIMUM OF 5% OF THE GROSS AREA OF AN OFF-STREET PARKING FACILITY, NOT INCLUDING THE SETBACK REQUIRED IN SECTION 135-812c, SHALL BE LANDSCAPED.

APPROXIMATELY TWELVE (12) PERCENT OF THE GROSS AREA OF THE OFF-STREET PARKING FACILITIES IS LANDSCAPED.

E. A CONTINUOUS LANDSCAPED STRIP SHALL BE PROVIDED AT A MINIMUM BETWEEN EVERY SIX ROWS OF PARKING SPACES. SAID STRIP SHALL BE A MINIMUM OF EIGHT FEET IN WIDTH.

LANDSCAPED STRIPS, AT LEAST EIGHT FEET WIDE, ARE PROVIDED AT A MINIMUM BETWEEN EVERY SIX ROWS OF PARKING SPACES.

F. PLANTING ISLANDS SHALL BE PROVIDED AT THE BEGINNING AND END OF AT LEAST EVERY THIRD PARKING ROW. SAID ISLAND SHALL BE A MINIMUM OF NINE FEET WIDE AND SHALL BE PLANTED WITH ONE SHADE TREE, HAVING A CLEAR TRUNK HEIGHT OF AT LEAST SIX FEET.

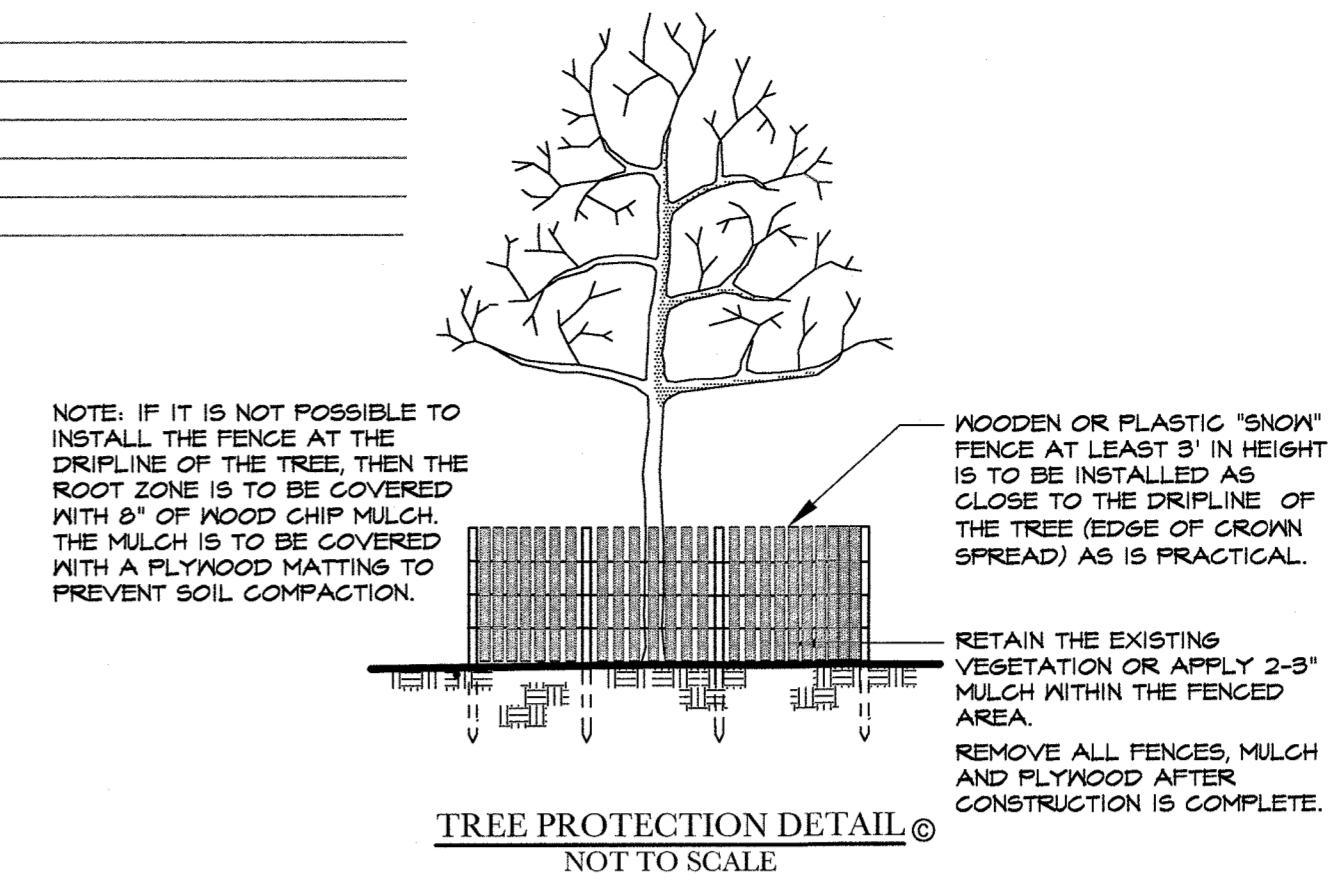
PARKING ISLANDS, WITH ONE TREE, ARE PROVIDED AT THE BEGINNING AND END OF AT LEAST EVERY THIRD PARKING ROW AND ARE A MINIMUM OF NINE FEET WIDE.

H. A MINIMUM FIVE-FOOT-WIDE BUFFER STRIP, WHICH MAY INCLUDE A SIDEWALK, SHALL BE PROVIDED BETWEEN THE PARKING FACILITY AND BUILDINGS WHEN PARKING OR CIRCULATION AREAS ADJUT SAID BUILDINGS.

BUFFER STRIPS AT LEAST FIVE-FEET WIDE ARE PROVIDED BETWEEN THE PARKING FACILITIES AND THE BUILDING WHERE PARKING OR CIRCULATION AREAS ADJUT THE BUILDING.

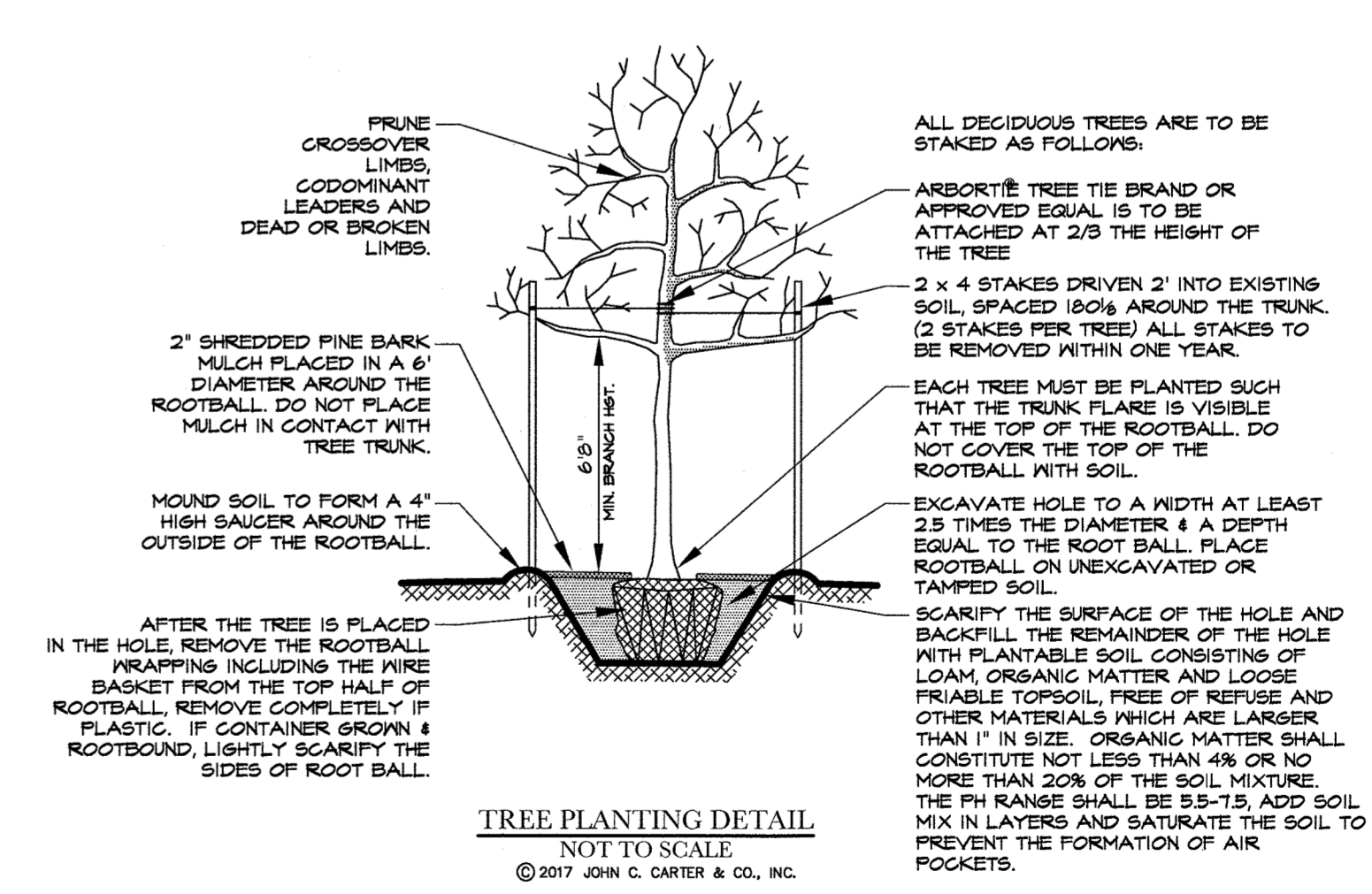
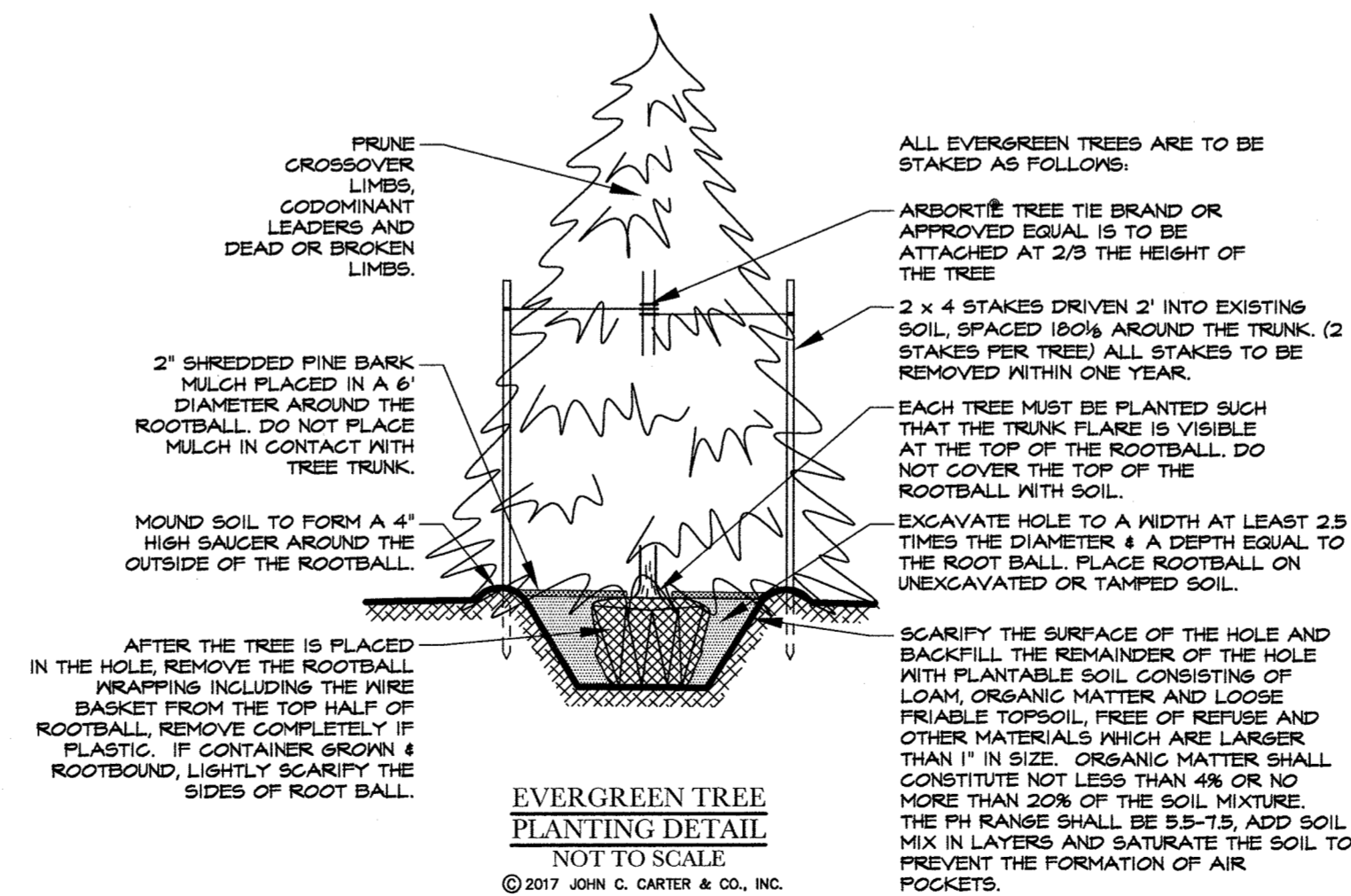
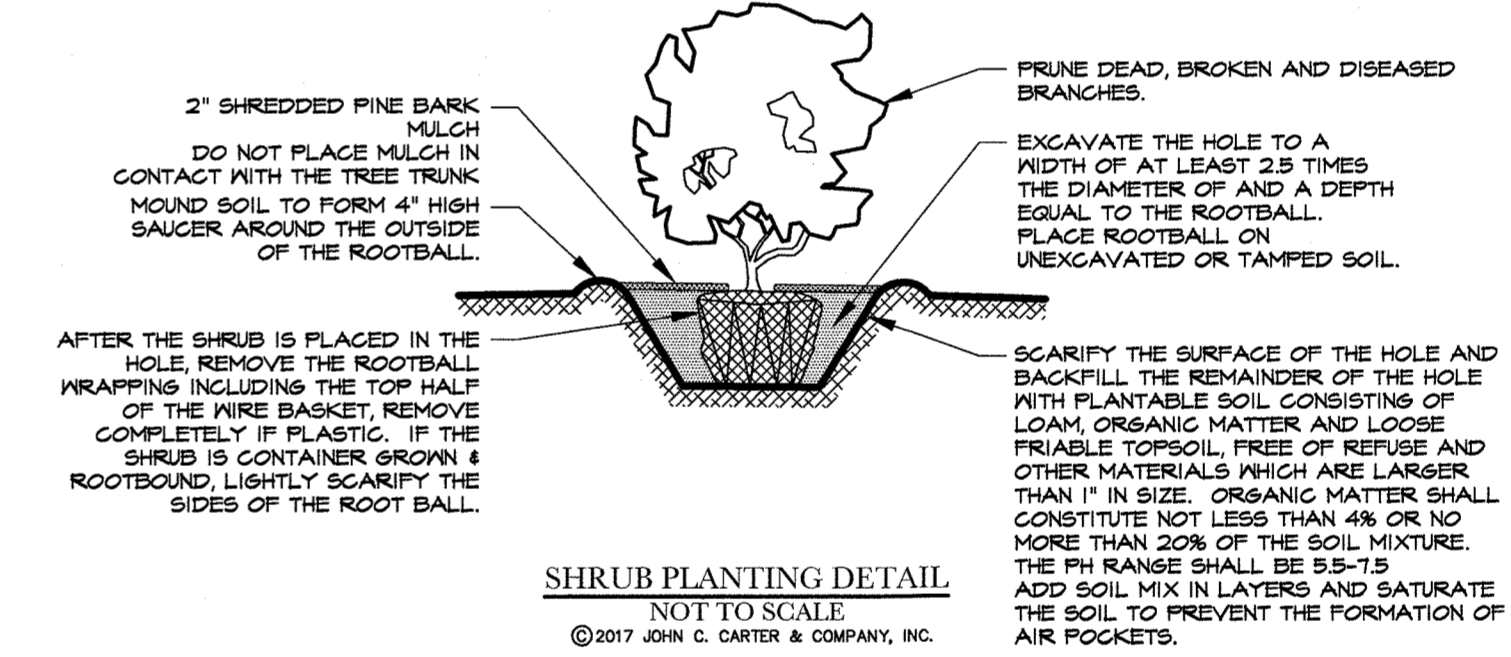
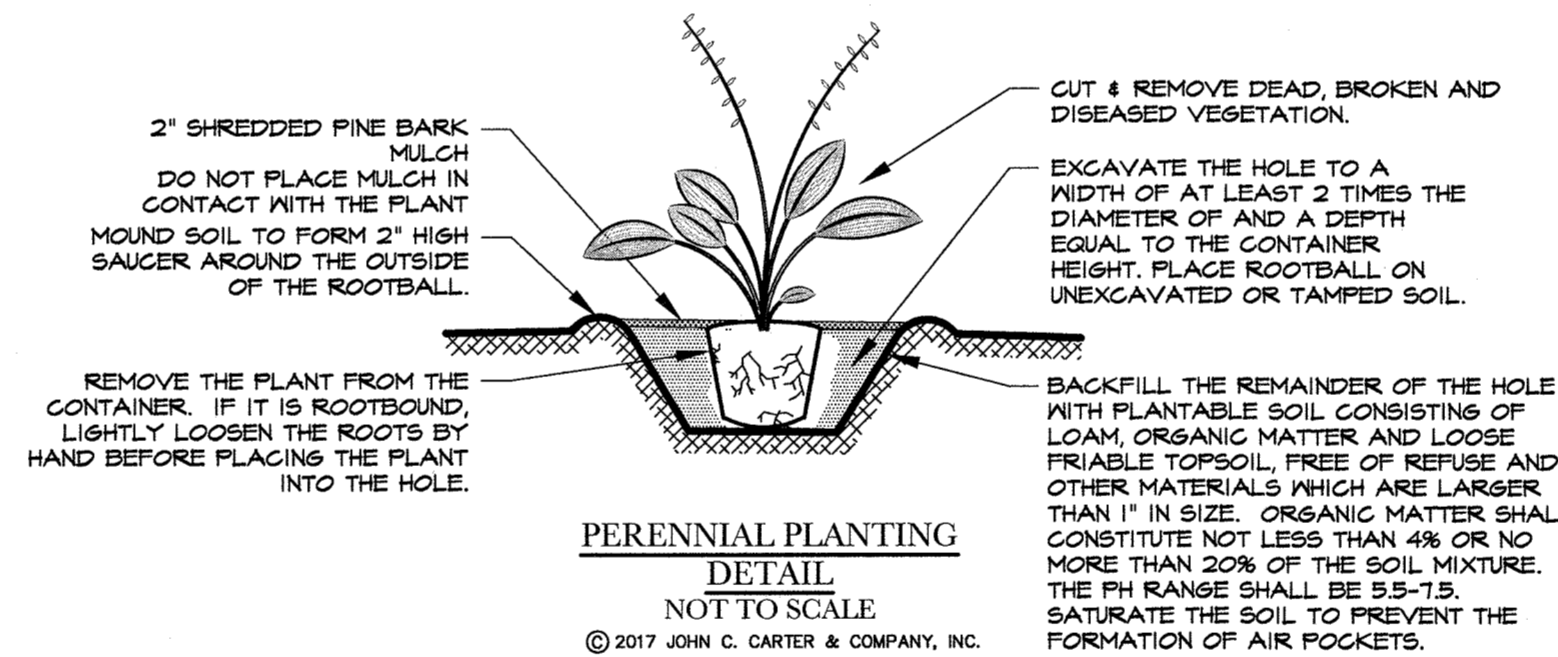
BRAINTREE PLANNING BOARD

APPROVED DATE: \_\_\_\_\_



**TREE PROTECTION NOTES**

- PRIOR TO CUTTING ANY TREES ADJACENT TO THE AREAS LABELED "PRESERVE & PROTECT EXISTING VEGETATION", THE LIMIT OF WORK SHALL BE STAKED OUT.
- A WOODEN OR PLASTIC SNOW FENCE OR A SILT FENCE SHALL BE INSTALLED TO CLEARLY DEMARCATE THE LIMITS OF WORK.
- THE PLACEMENT OF TOPSOIL FOR FINAL GRADING FOR THE INSTALLATION OF LAWN AND OTHER LANDSCAPE TREATMENTS, WHICH TAKES PLACE WITHIN THE DRIP LINE OF A TREE SHALL BE ACCOMPLISHED WITH A BOB-CAT TYPE OF MACHINERY. NO BACK-HOE OR SIMILAR TYPE OF MACHINERY SHALL OPERATE WITHIN 8' OF THE TRUNK OF ANY TREE TO BE PRESERVED.
- NO EXISTING SOIL SHALL BE REMOVED FROM THE DRIP LINE AREA OF ANY TREE TO BE PRESERVED. A MAXIMUM OF 4" OF SOIL IS TO BE ADDED WITHIN THE DRIP LINE OF A TREE FOR FINAL GRADING. ALL FINAL GRADING PERFORMED WITHIN THE DRIP LINE OF A TREE SHALL BE MANUAL GRADING.
- THERE SHALL BE NO STOCKPILING OF SOIL, EQUIPMENT OR MATERIALS UNDER THE DRIP LINE OF ANY TREE TO BE PRESERVED.



NO	DATE	REVISIONS
1	11-24-15	LAYOUT MODIFICATIONS
2	1-27-17	PLANTING PER LAYOUT MODIFICATIONS

SEAL

JOHN C. CARTER & CO., INC.  
960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783-3900

LANDSCAPE ARCHITECTURE  
DESIGN & BUILD

DATE: NOVEMBER 13, 2015  
DRAWN: LMW  
SCALE: 1" = 20'

**BRAINTREE SPORTS CENTER**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAintree, MASSACHUSETTS

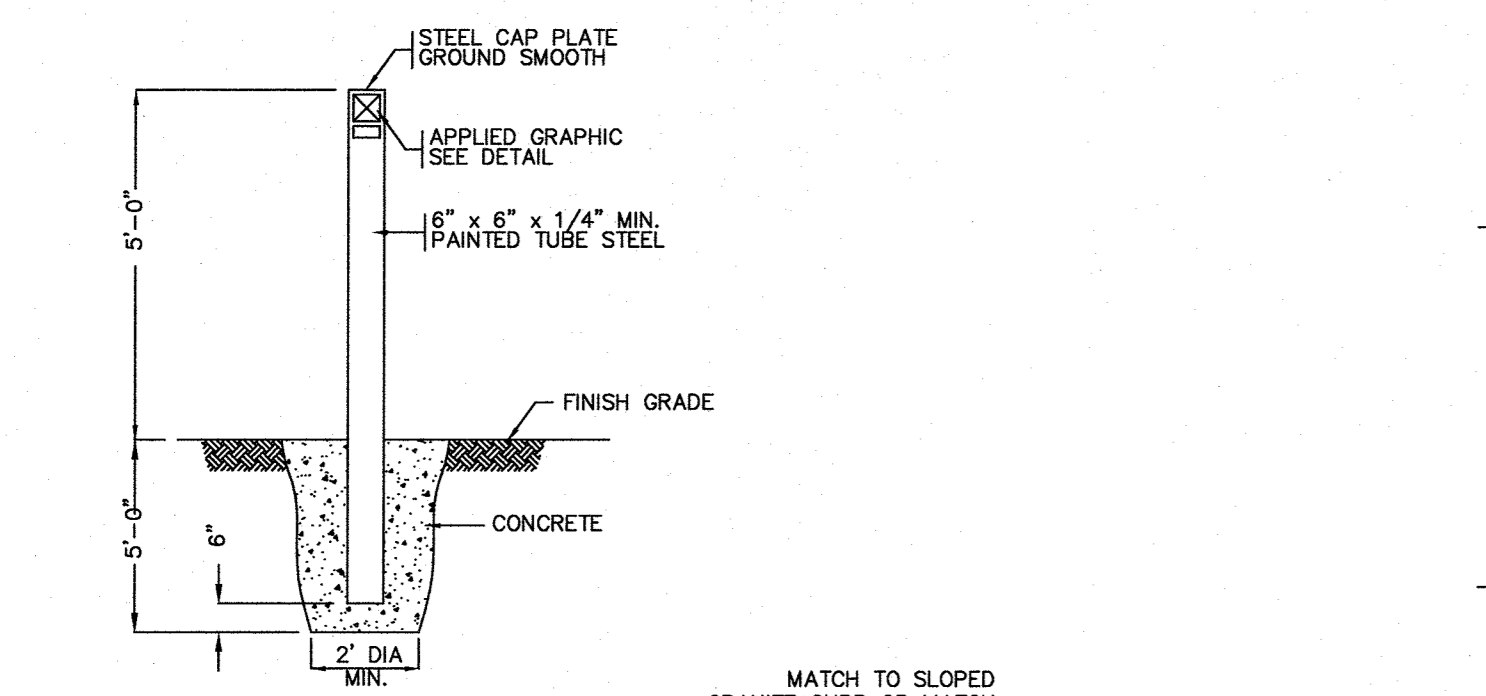
**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL: (508) 695-2221 FAX: (508) 695-2219

LANDSCAPE  
NOTES & DETAILS

**C-5.3**  
SHEET 15 OF 19

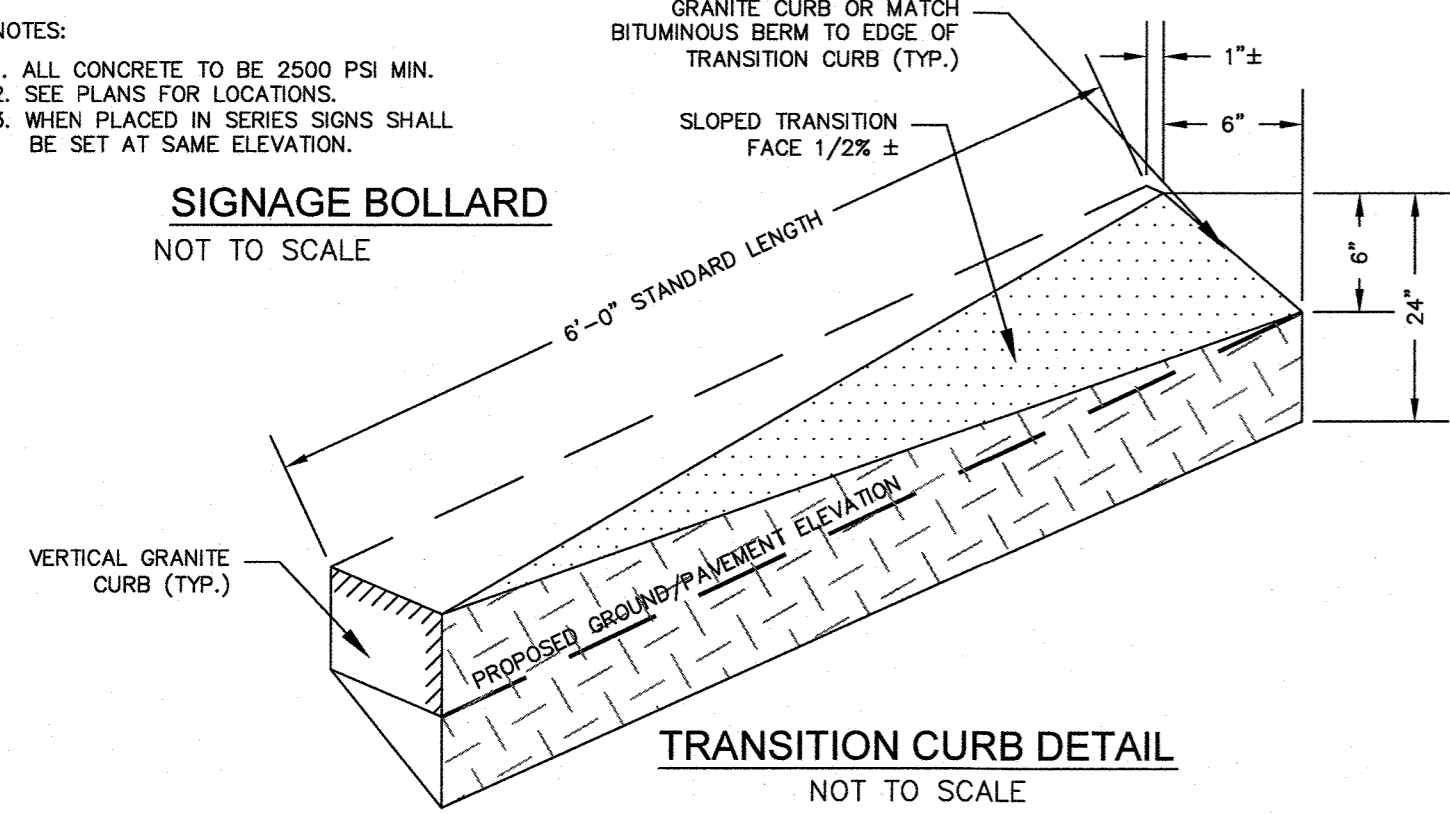
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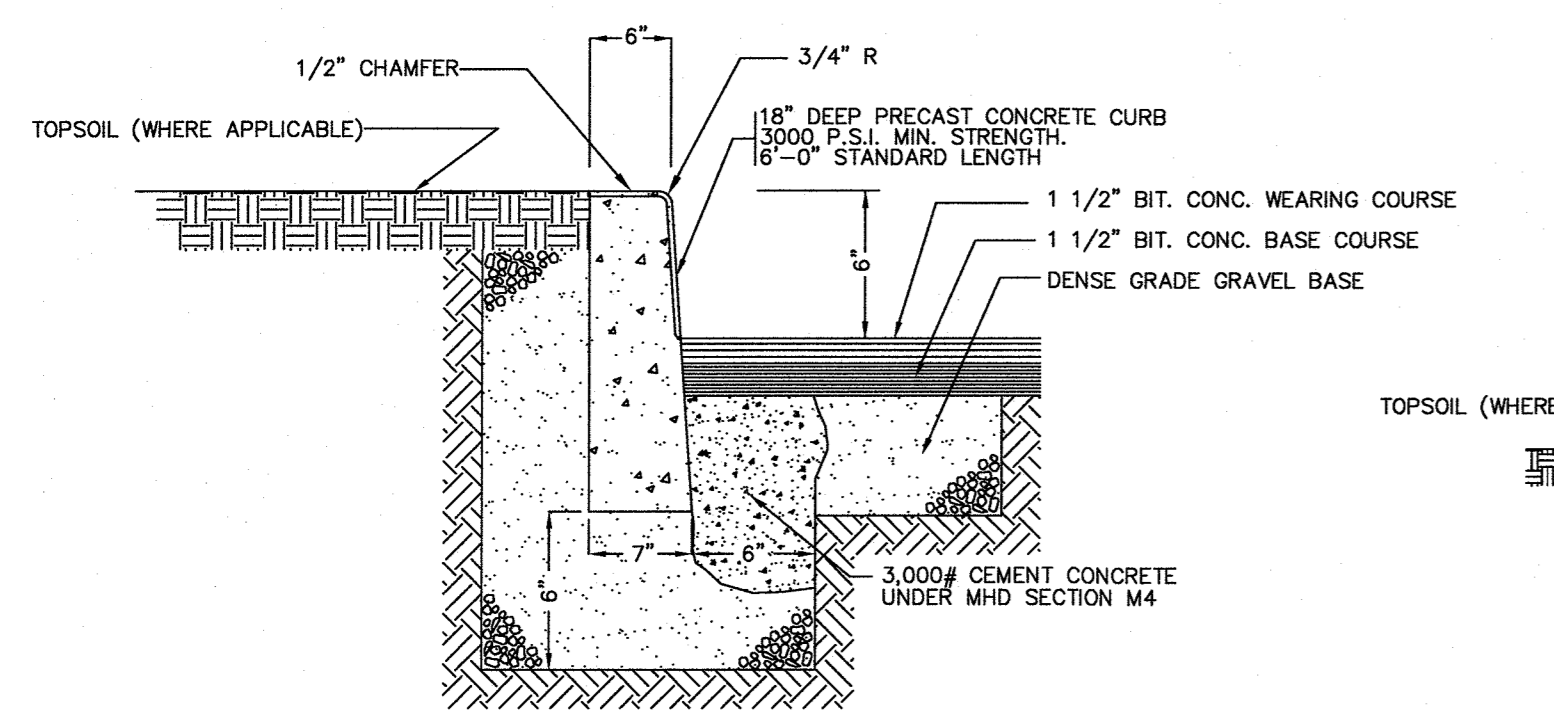


NOTES:  
 1. ALL CONCRETE TO BE 2500 PSI MIN.  
 2. SEE PLANS FOR LOCATIONS.  
 3. WHEN PLACED IN SERIES SIGNS SHALL BE SET AT SAME ELEVATION.

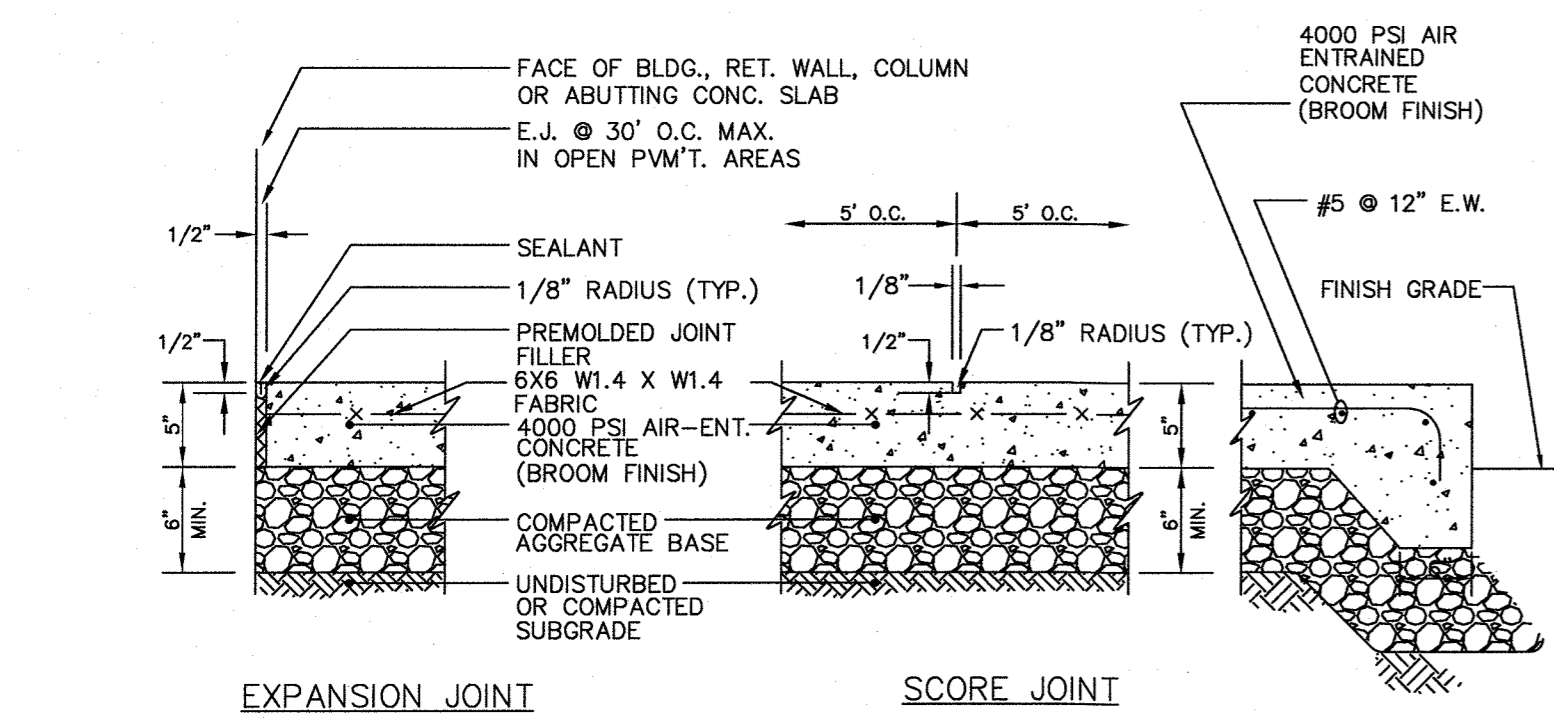
**SIGNAGE BOLLARD**  
 NOT TO SCALE



**TRANSITION CURB DETAIL**  
 NOT TO SCALE



**PRECAST CONCRETE CURB**  
 NOT TO SCALE

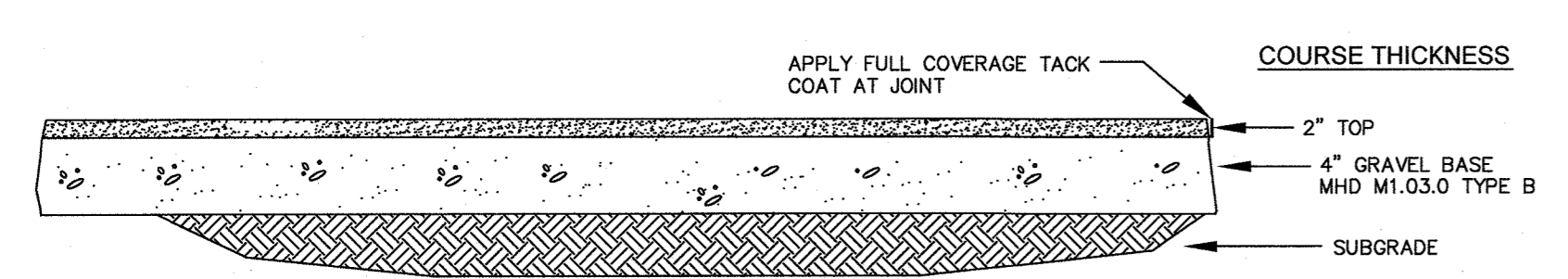


**EXPANSION JOINT**

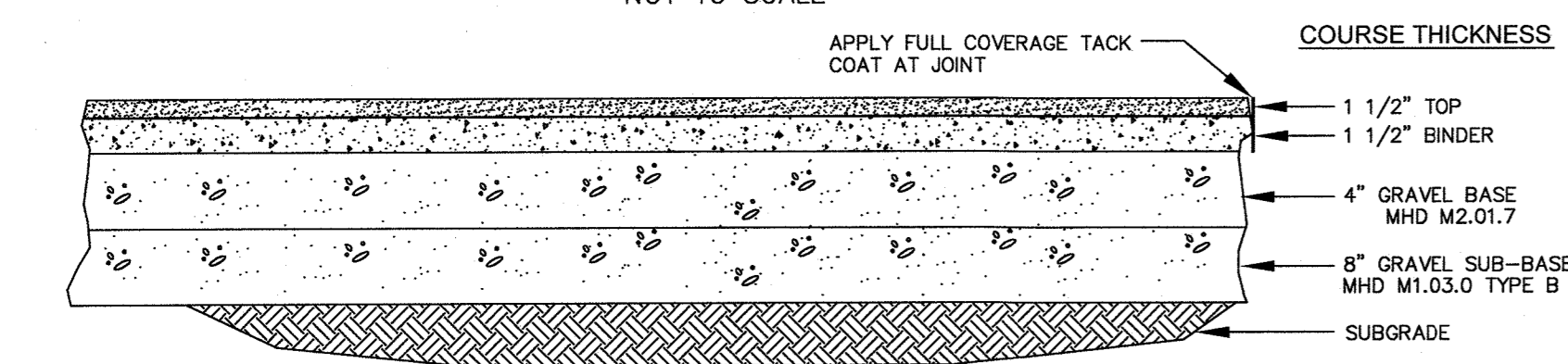
**SCORE JOINT**

1. MAXIMUM CROSS SLOPE = 2%
2. MAXIMUM GRADIENT = 5%
3. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES.
4. PROVIDE VERTICAL GRANITE OR PRECAST CONCRETE CURBING PER SHEET C3.

**CONCRETE SIDEWALK**  
 NOT TO SCALE



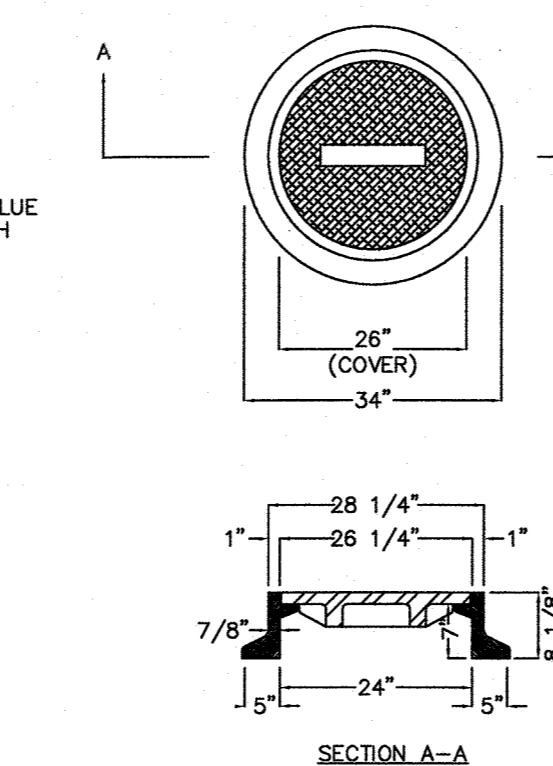
**BITUMINOUS CONCRETE SIDEWALK**  
 NOT TO SCALE



**AUTOMOTIVE AREAS - BITUMINOUS CONCRETE PAVEMENT**  
 NOT TO SCALE

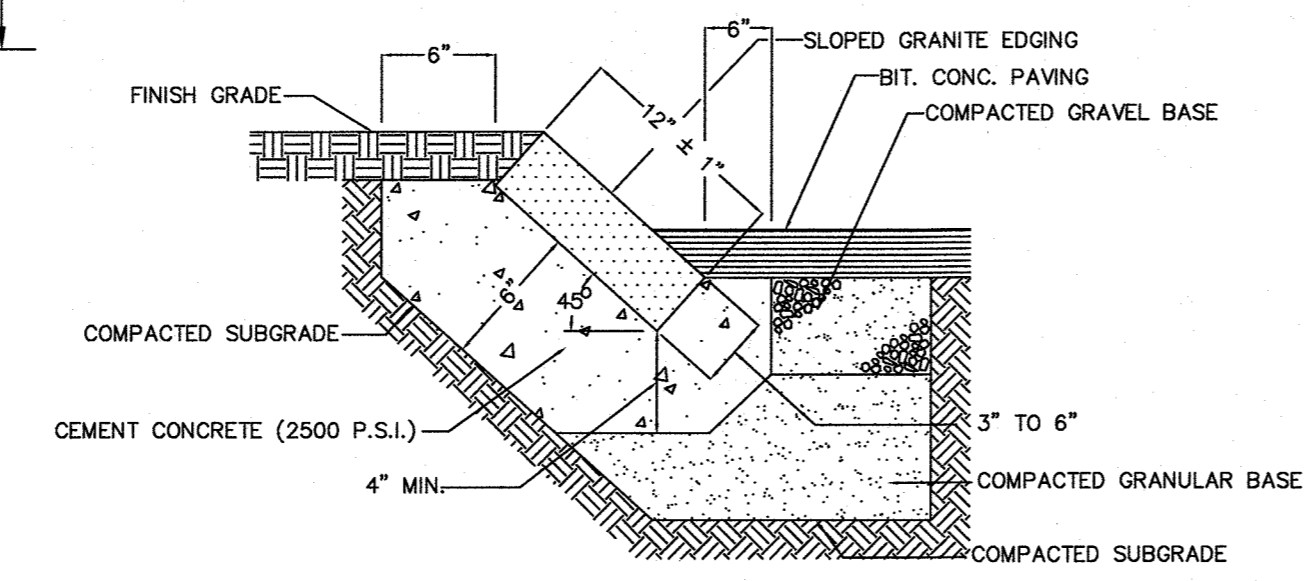


**SIGNAGE GRAPHIC**  
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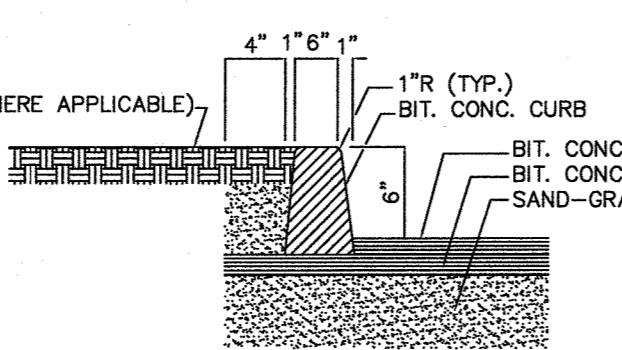


**STANDARD MANHOLE FRAME & COVER**  
 NOT TO SCALE

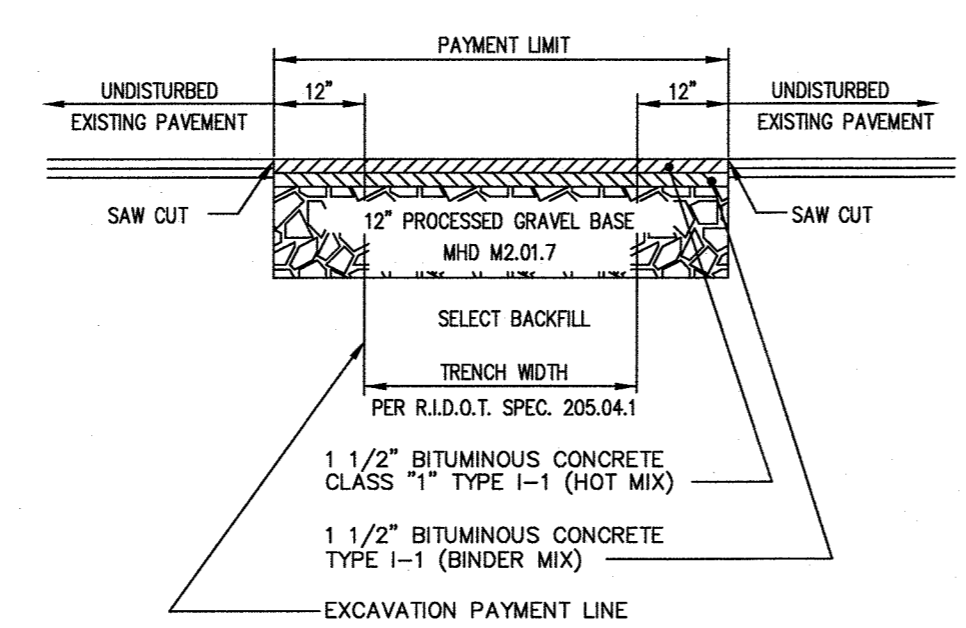
- NOTES:  
 1. STANDARD COVER MIN. WEIGHT 200 LBS.  
 2. TYPE-A FRAME MIN. WEIGHT 255 LBS. MATERIAL-CAST IRON  
 3. STAMPED TO READ 'DRAIN' FOR DRAIN MANHOLE INSTALLATION & 'SEWER' FOR SEWER MANHOLE INSTALLATION



**SLOPED GRANITE CURB**  
 NOT TO SCALE

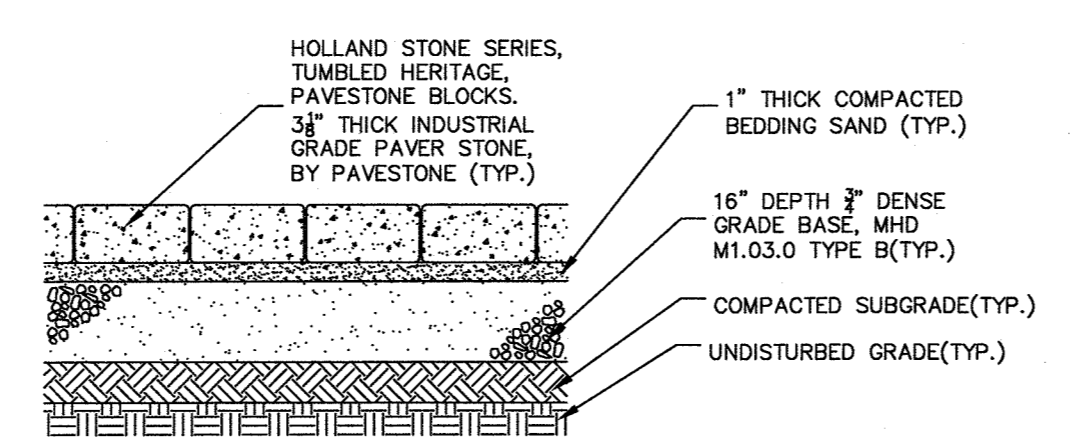


**BITUMINOUS CONCRETE CURB**  
 NOT TO SCALE



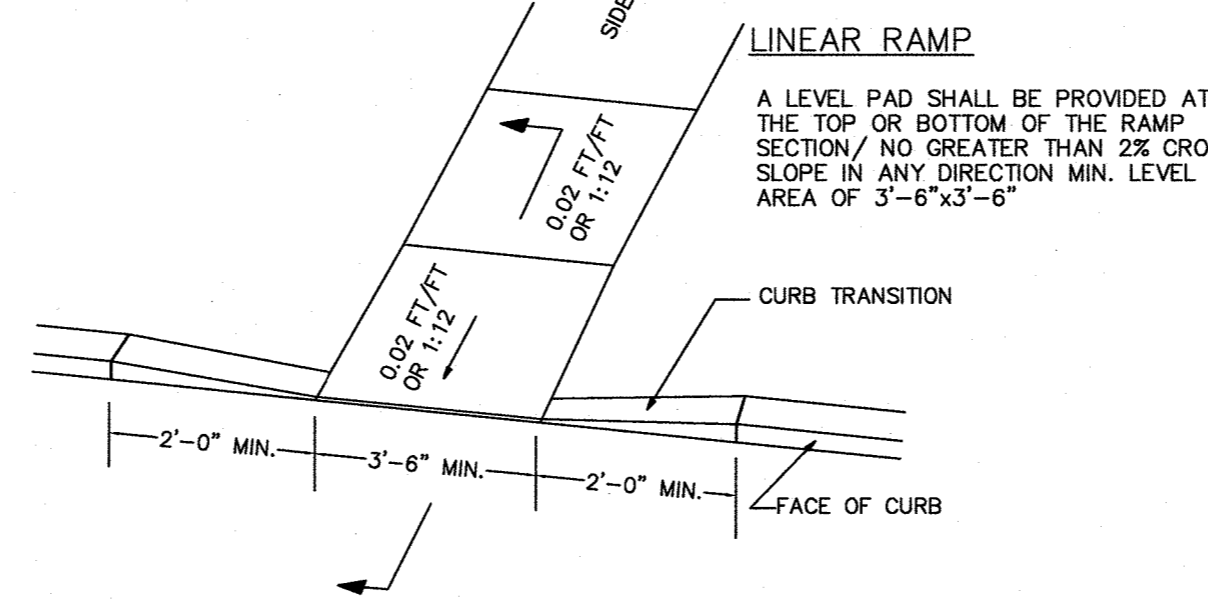
**BITUMINOUS CONCRETE PAVEMENT UTILITY PATCH**  
 NOT TO SCALE

NOTE: 12\"/>

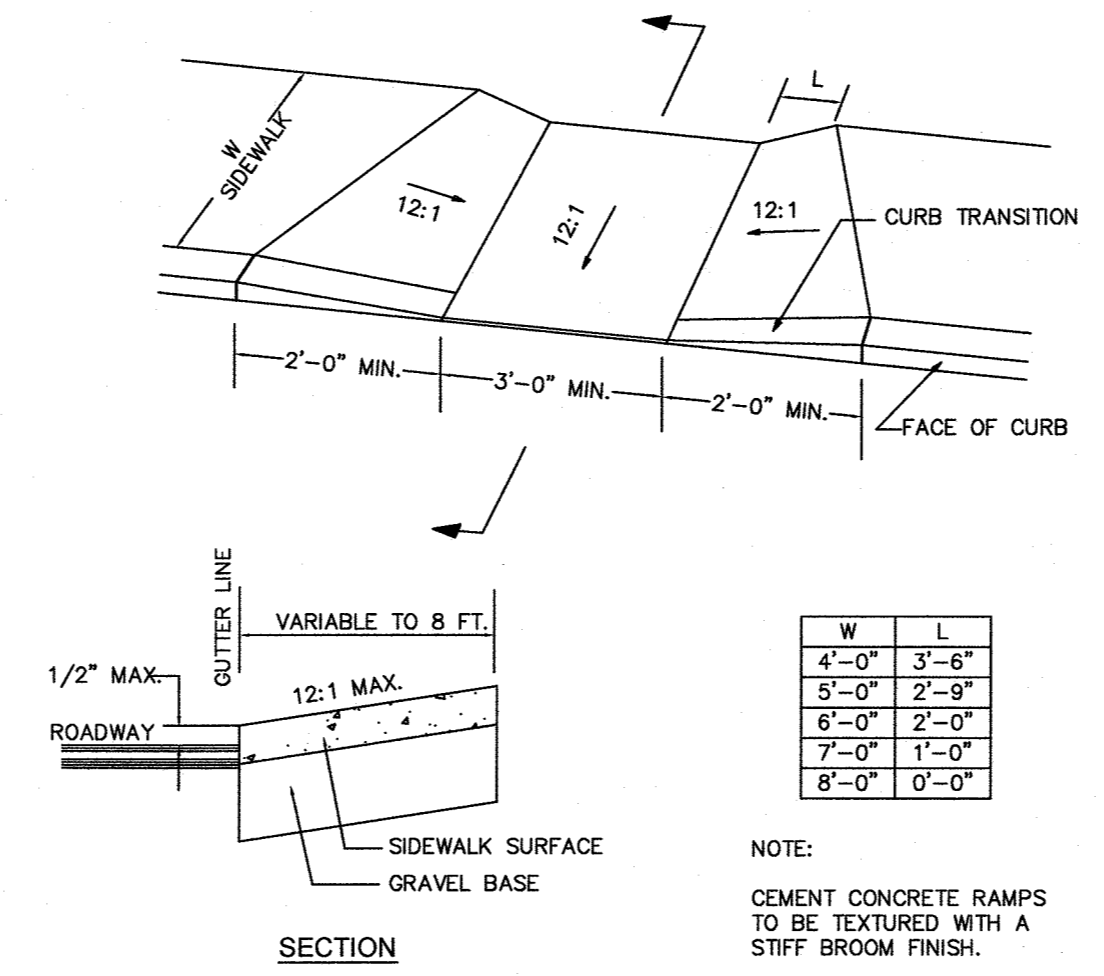


- NOTES:  
 1. MATERIAL COMPACTION SHALL BE AS SPECIFIED BY PAVESTONE FOR PAVEMENT INSTALLATION IN AN INDUSTRIAL SETTING.  
 2. MATERIAL INSTALLATION SHALL BE AS SPECIFIED BY PAVESTONE FOR MATERIAL JOINTING.  
 3. PAVERS SHALL BE PLACED FLUSH TO SURROUNDING PAVEMENT AND EACH OTHER TO ALLOW FOR FLOW MOVEMENT THROUGHOUT THE INSTALLED AREA.

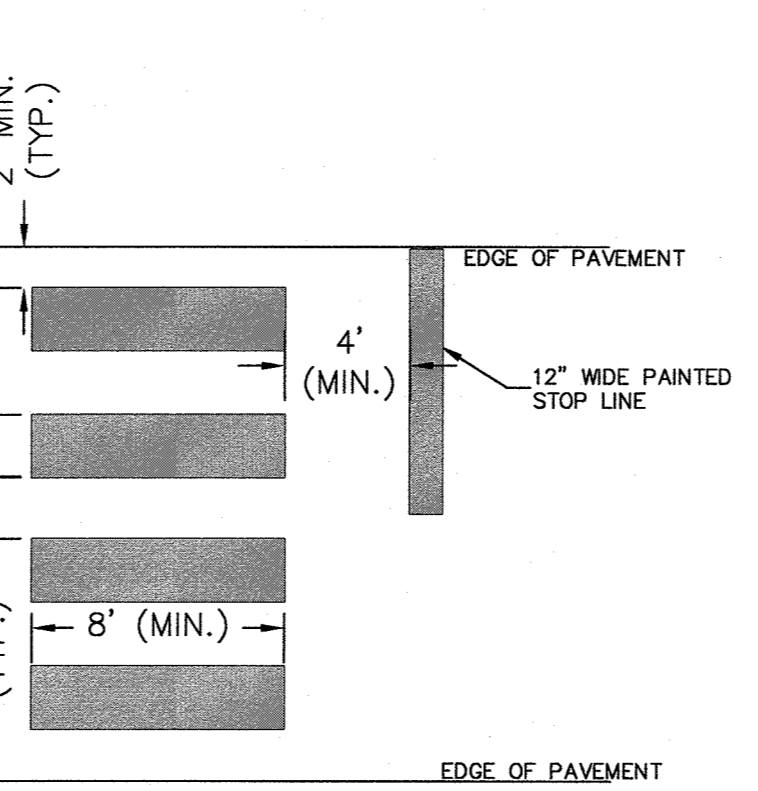
**PAVER STONE INSTALLATION**  
 NOT TO SCALE



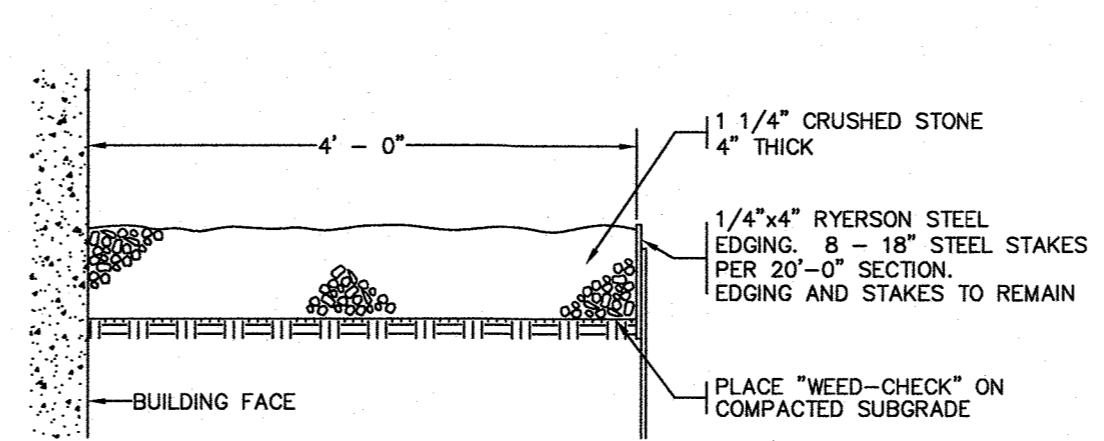
**LINEAR RAMP**



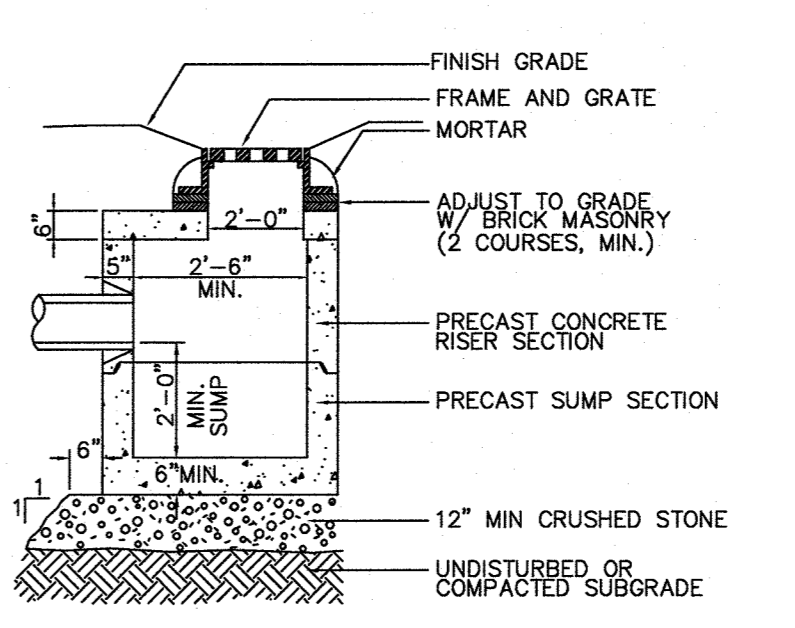
**WHEEL CHAIR RAMP**  
 NOT TO SCALE



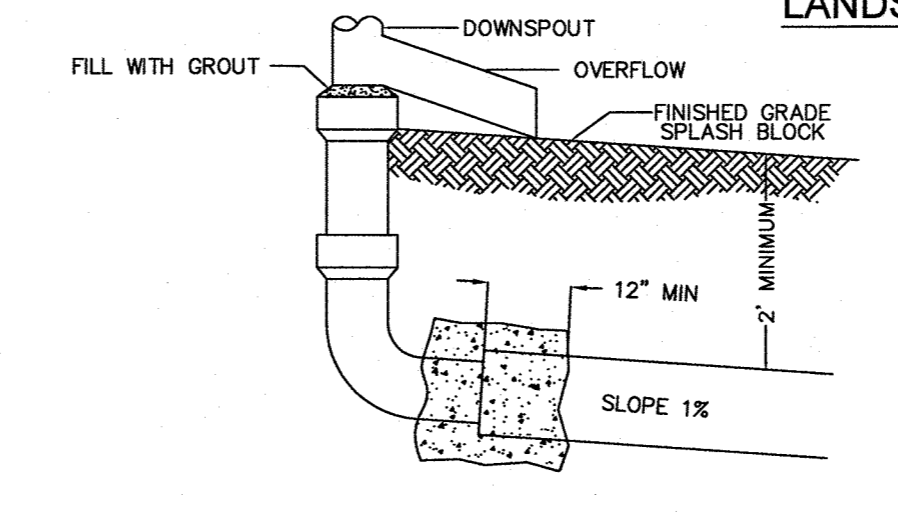
**PAINTED CROSSWALK**  
 NOT TO SCALE



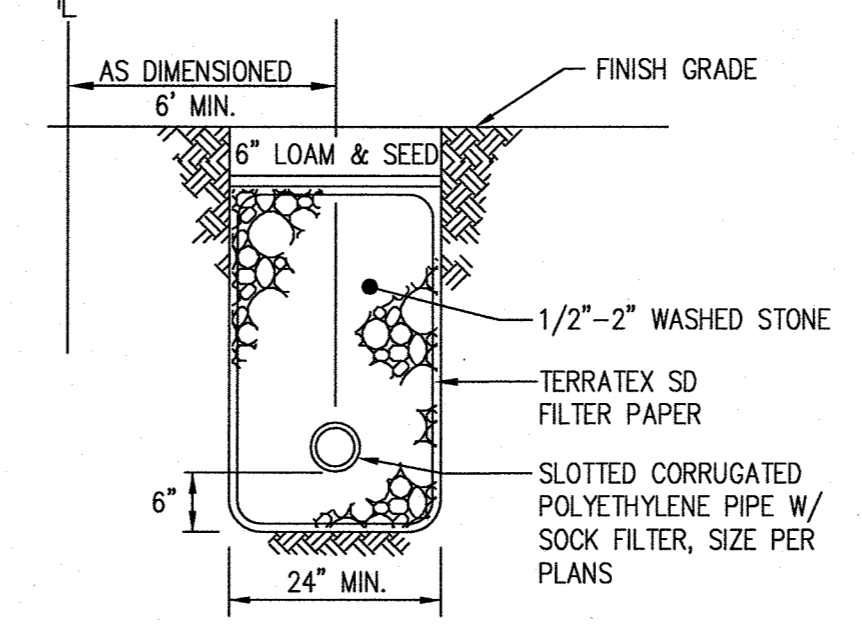
**STONE MAINTENANCE STRIP**  
 NOT TO SCALE



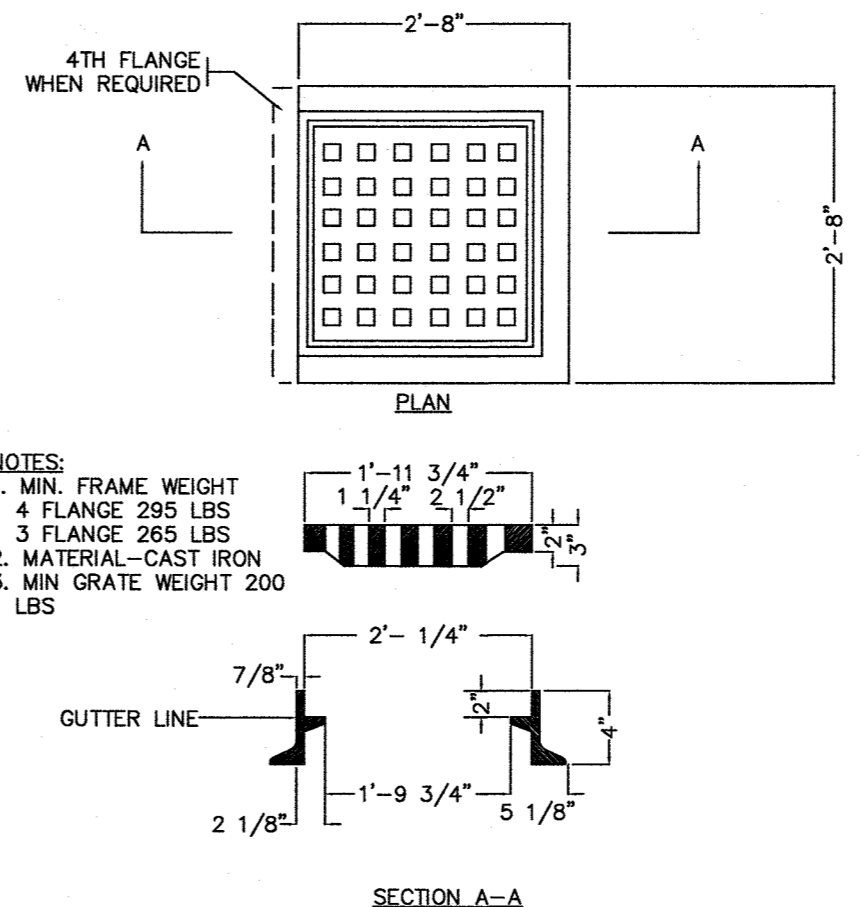
**LANDSCAPE CATCH BASIN (LCB)**  
 NOT TO SCALE



**DOWNSPOUT CONNECTION TO DRAINAGE OUTLET**  
 NOT TO SCALE

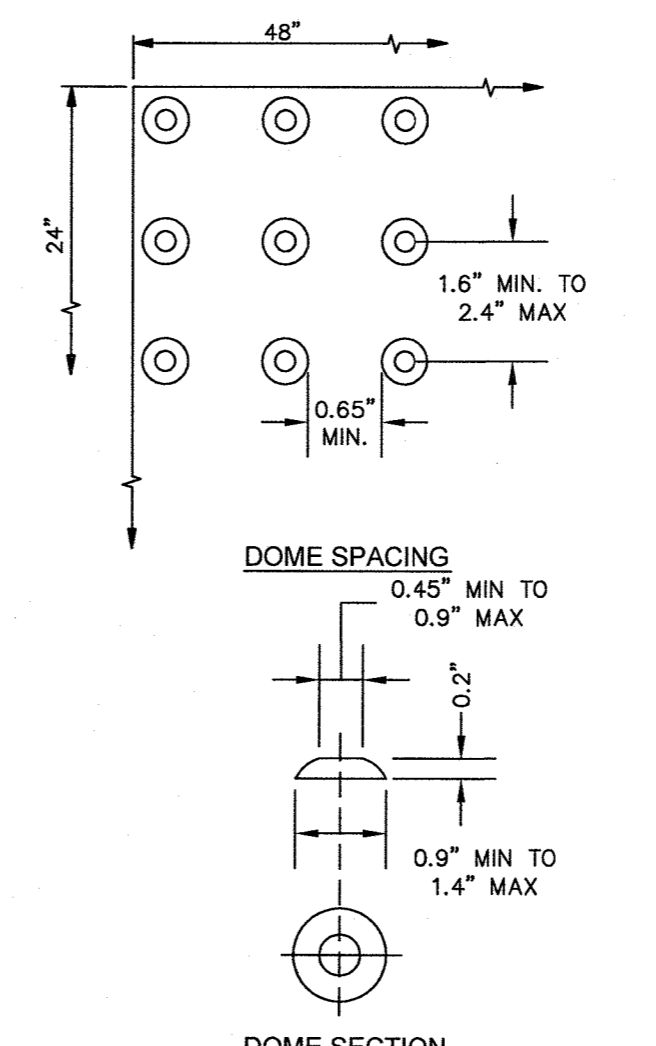


**ROOF DRAIN HEADER**  
 NOT TO SCALE

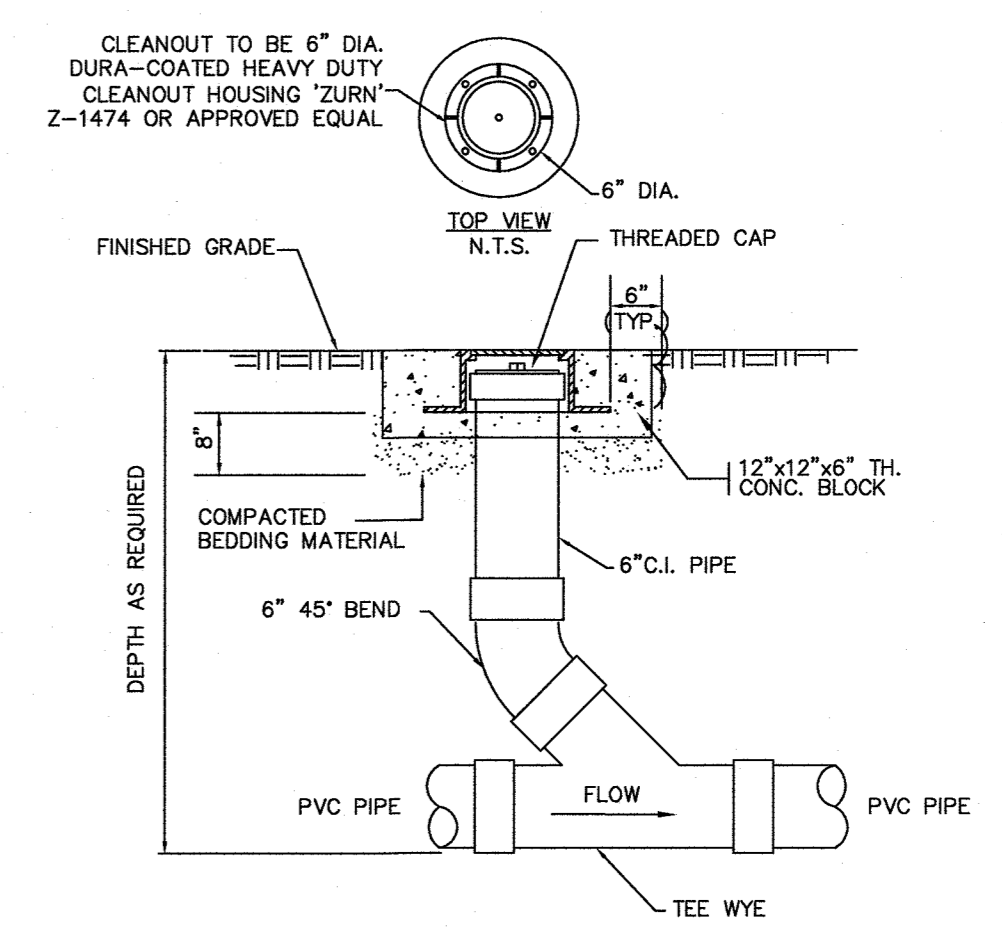


**STANDARD CATCH BASIN FRAME & GRATE**  
 NOT TO SCALE

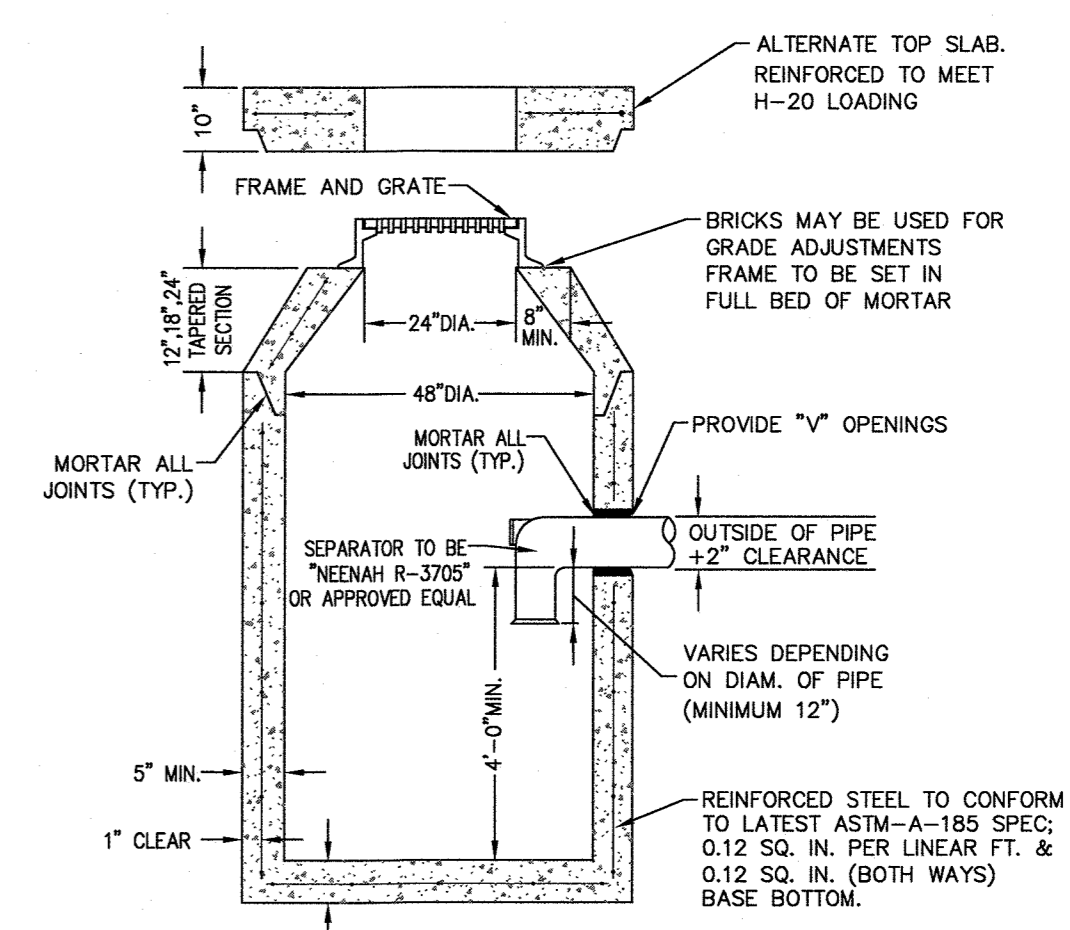
- NOTES:  
 1. MIN. FRAME WEIGHT 295 LBS  
 2. FLANGE 295 LBS  
 3. MATERIAL-CAST IRON  
 4. MIN. GRATE WEIGHT 200 LBS



**DETECTABLE WARNING STRIP**  
 NOT TO SCALE

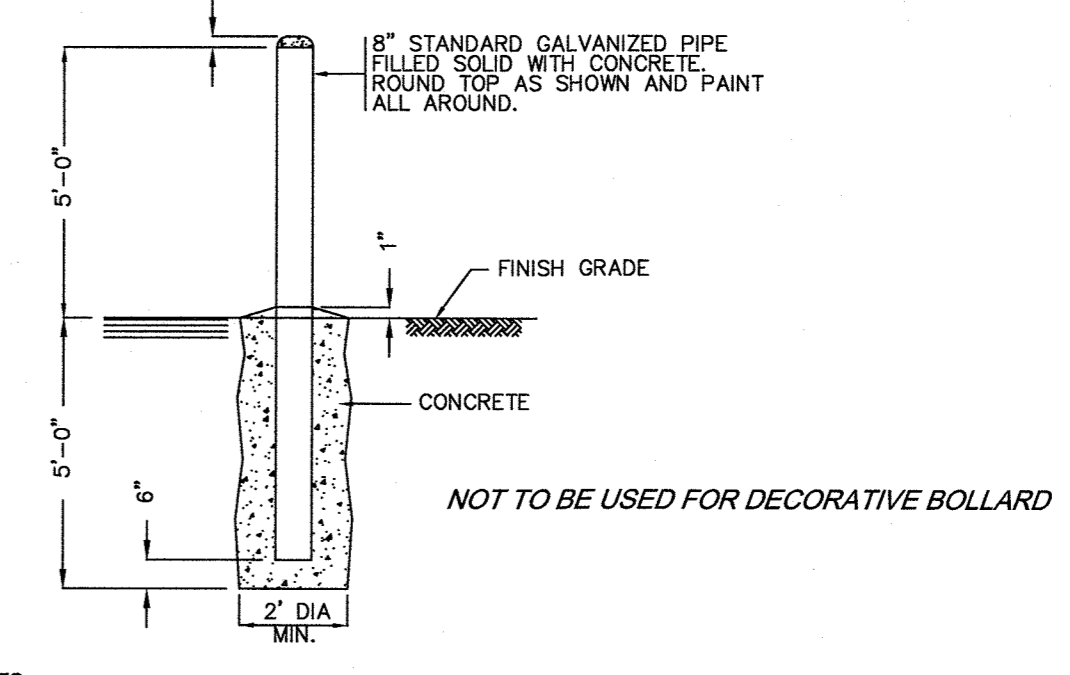


**CLEANOUT AT GRADE**  
 NOT TO SCALE



**PRECAST CONCRETE CATCH BASIN WITH GAS AND OIL SEPARATOR**  
 NOT TO SCALE

- NOTES:  
 1. CONCRETE TO BE 4,000 PSI MIN. PER ASTM C-478(6.1).  
 2. REINFORCING TO MEET OR EXCEED H-20 LOADING REQUIREMENTS.



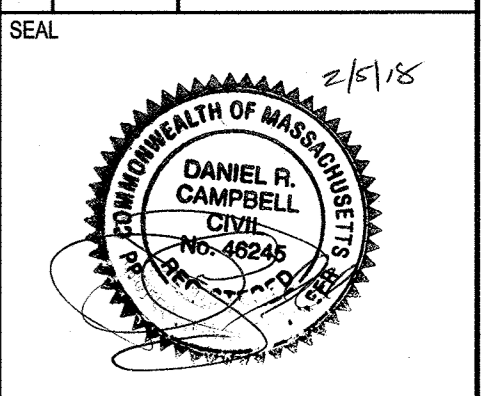
**STEEL PIPE BOLLARD**  
 NOT TO SCALE

- NOTES:  
 1. ALL CONCRETE TO BE 2500 PSI MIN.  
 2. SEE PLANS FOR LOCATIONS.

**BRAINTREE PLANNING BOARD**

NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE/BLDG FTRMNT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE: \_\_\_\_\_



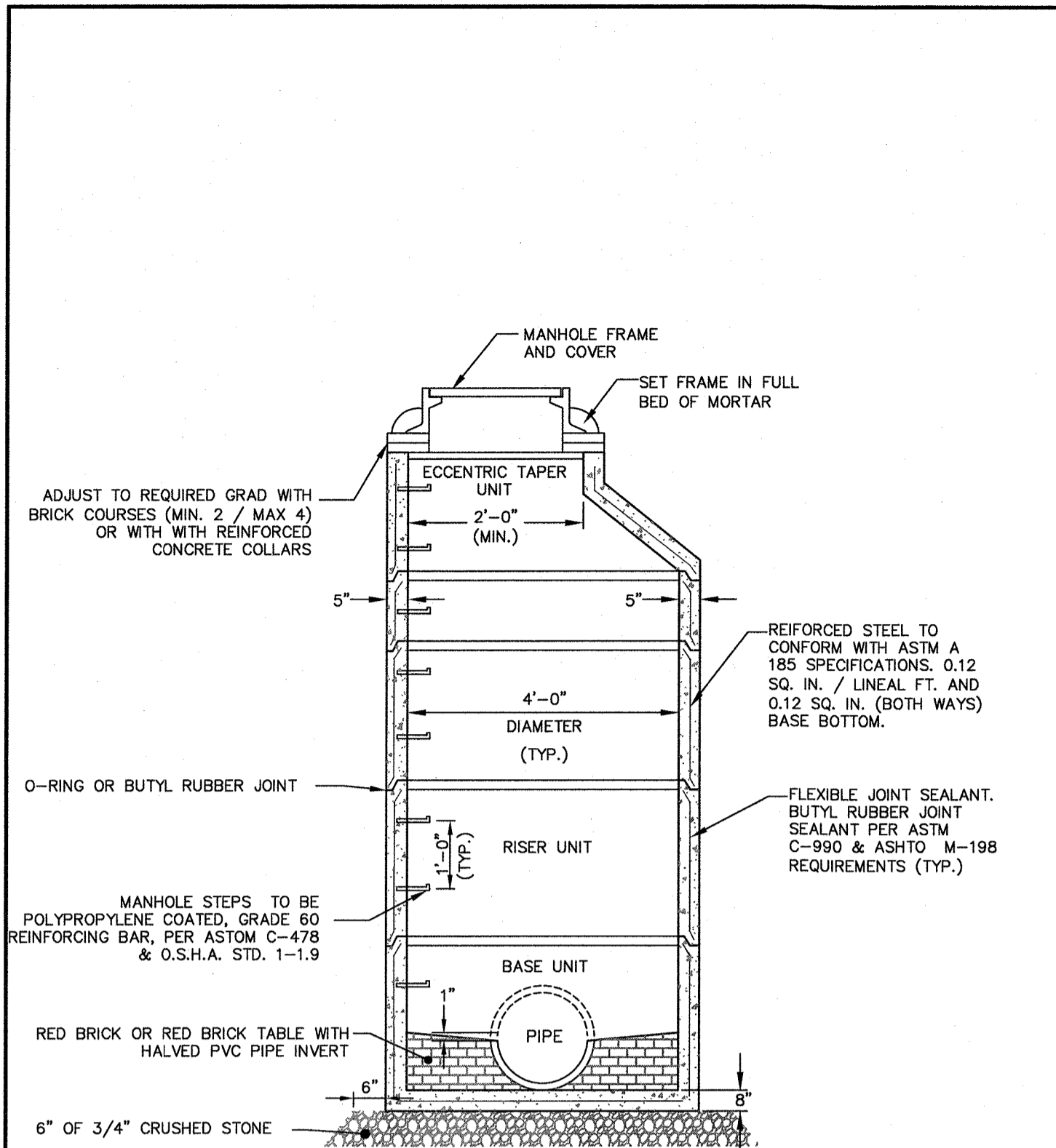
DATE: JULY 30, 2015  
 DRAWN: DRC/NF  
 SCALE: NOT TO SCALE

**PETERSEN POOL**  
 INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
 A PORTION OF AM 1042, PARCELS 01 & 02  
 128 TOWN STREET  
 BRAINTREE, MASSACHUSETTS

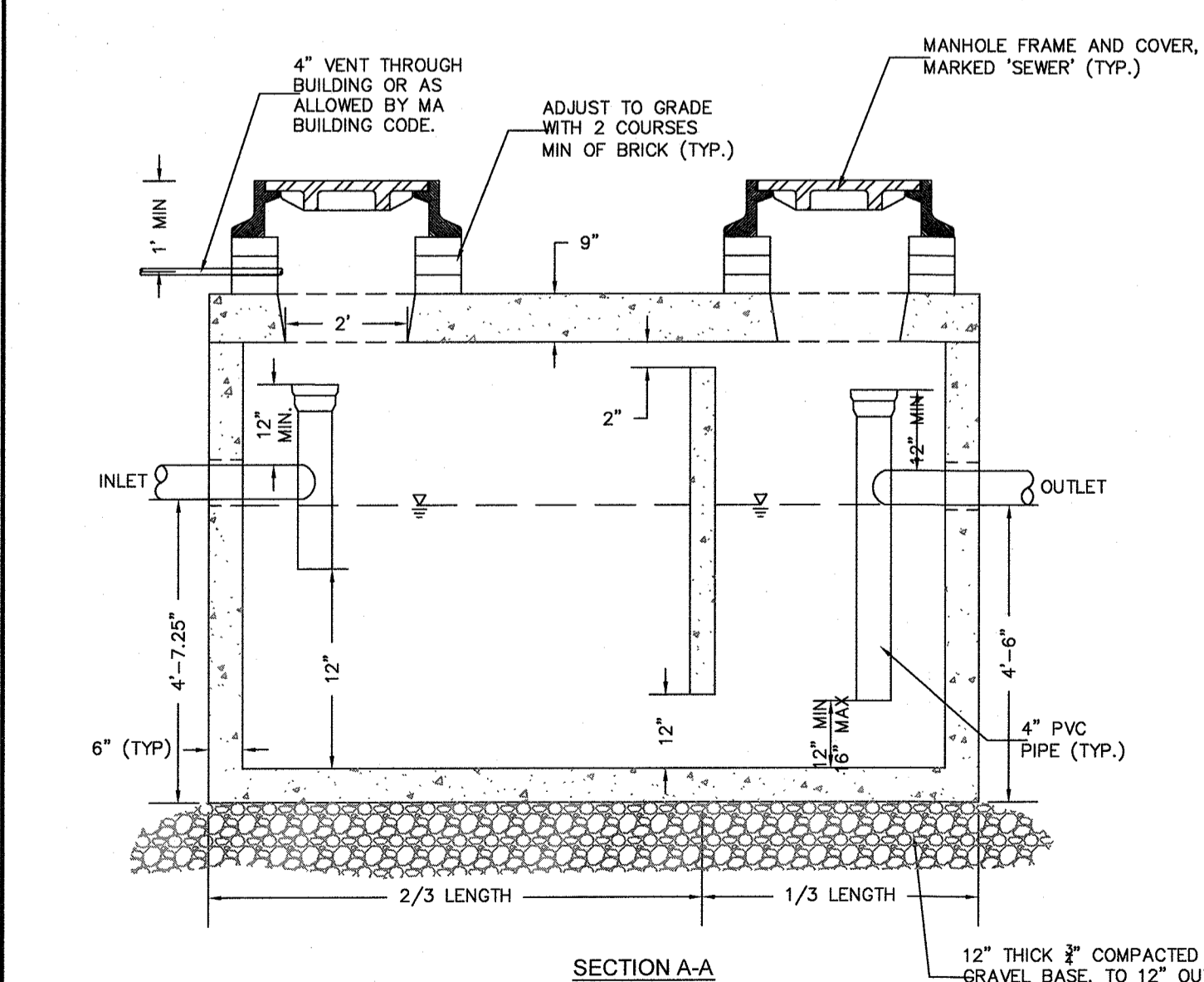
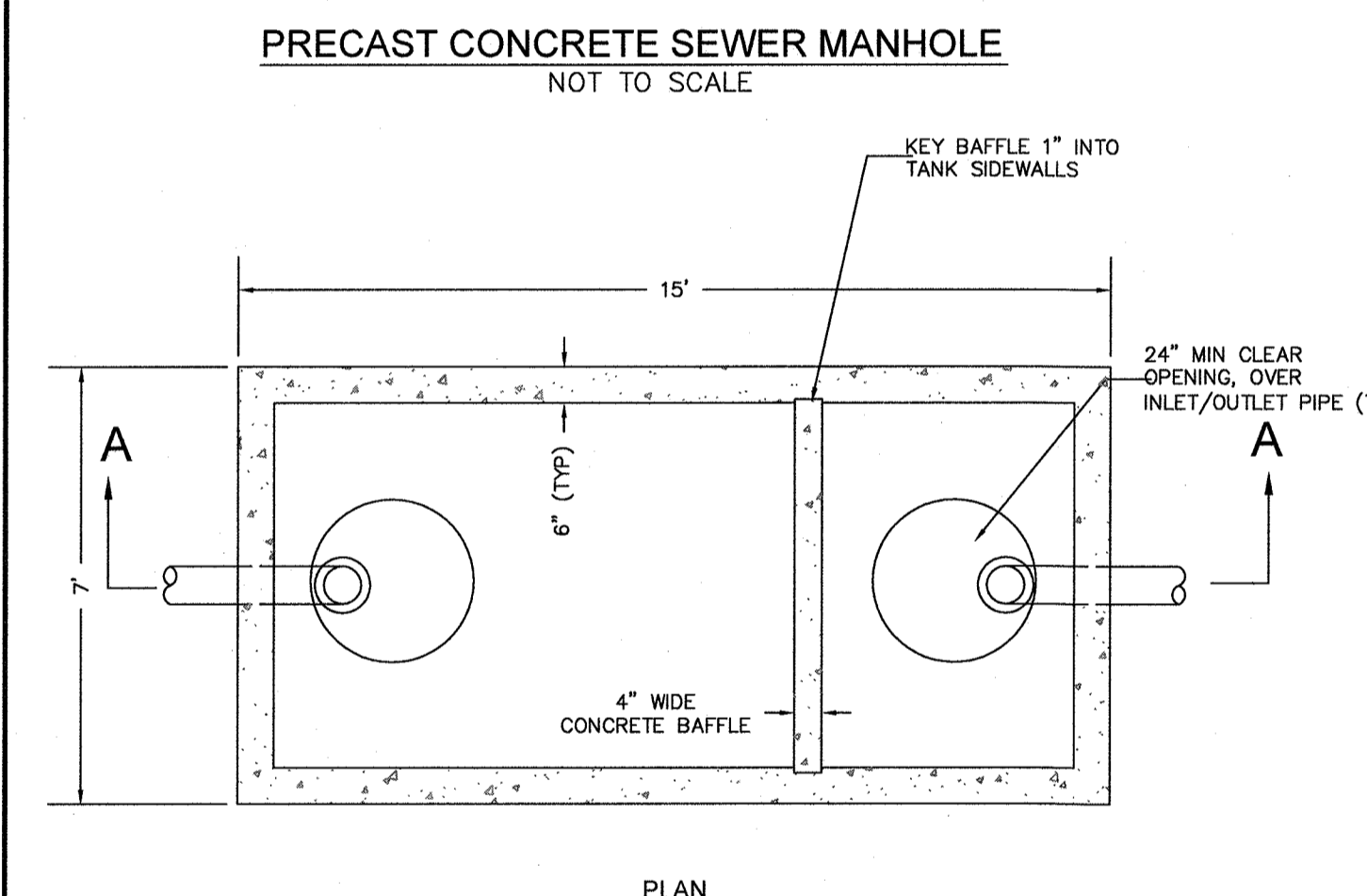
**LEVEL**  
 DESIGN GROUP  
 CIVIL ENGINEERING / LAND SURVEYING  
 249 SOUTH STREET  
 UNIT 1  
 PLAINVILLE, MA 02762  
 TEL. (508) 695-2221 FAX. (508) 695-2219

**TYPICAL DETAILS**  
**C-6.0**  
 SHEET 16 OF 19  
**1410.00**

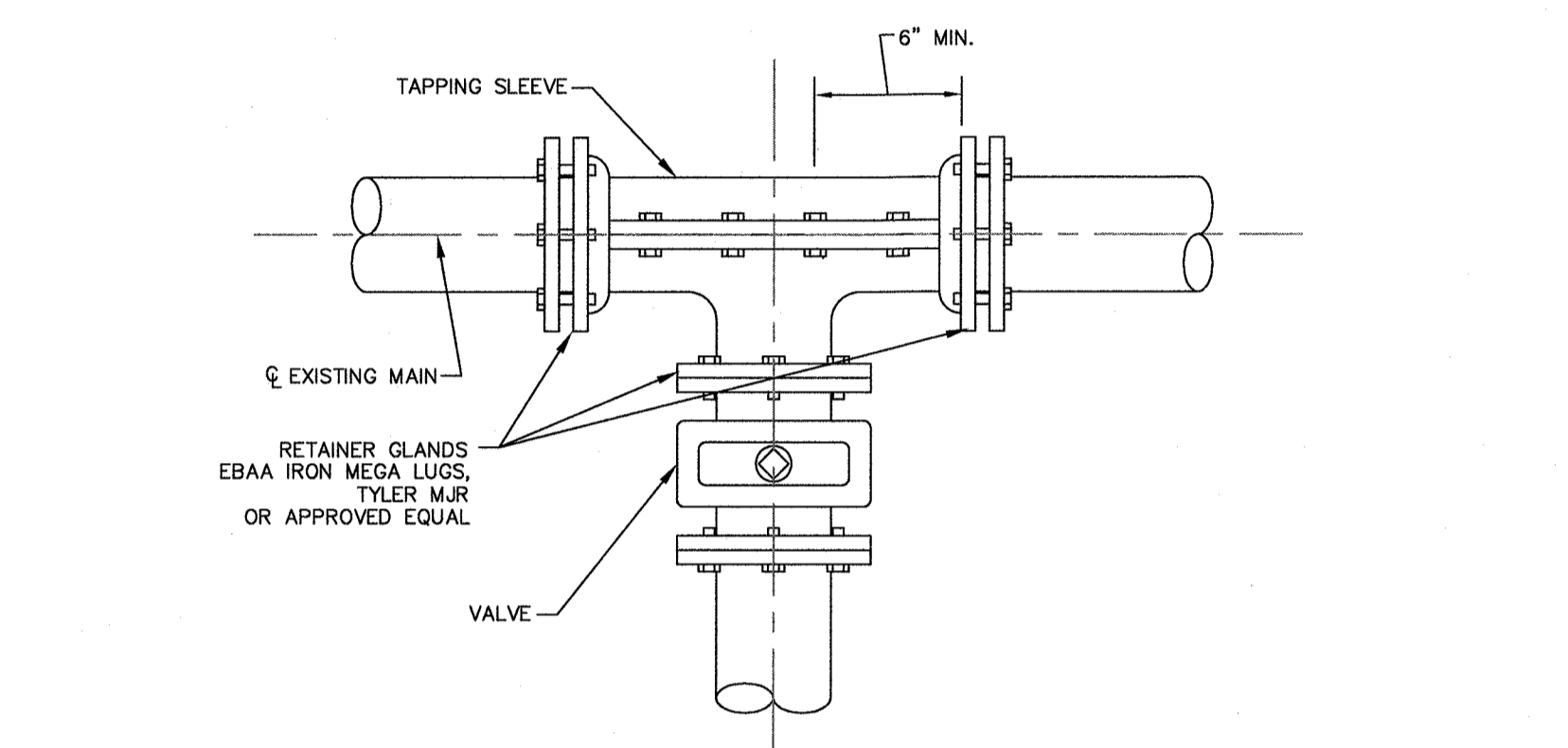
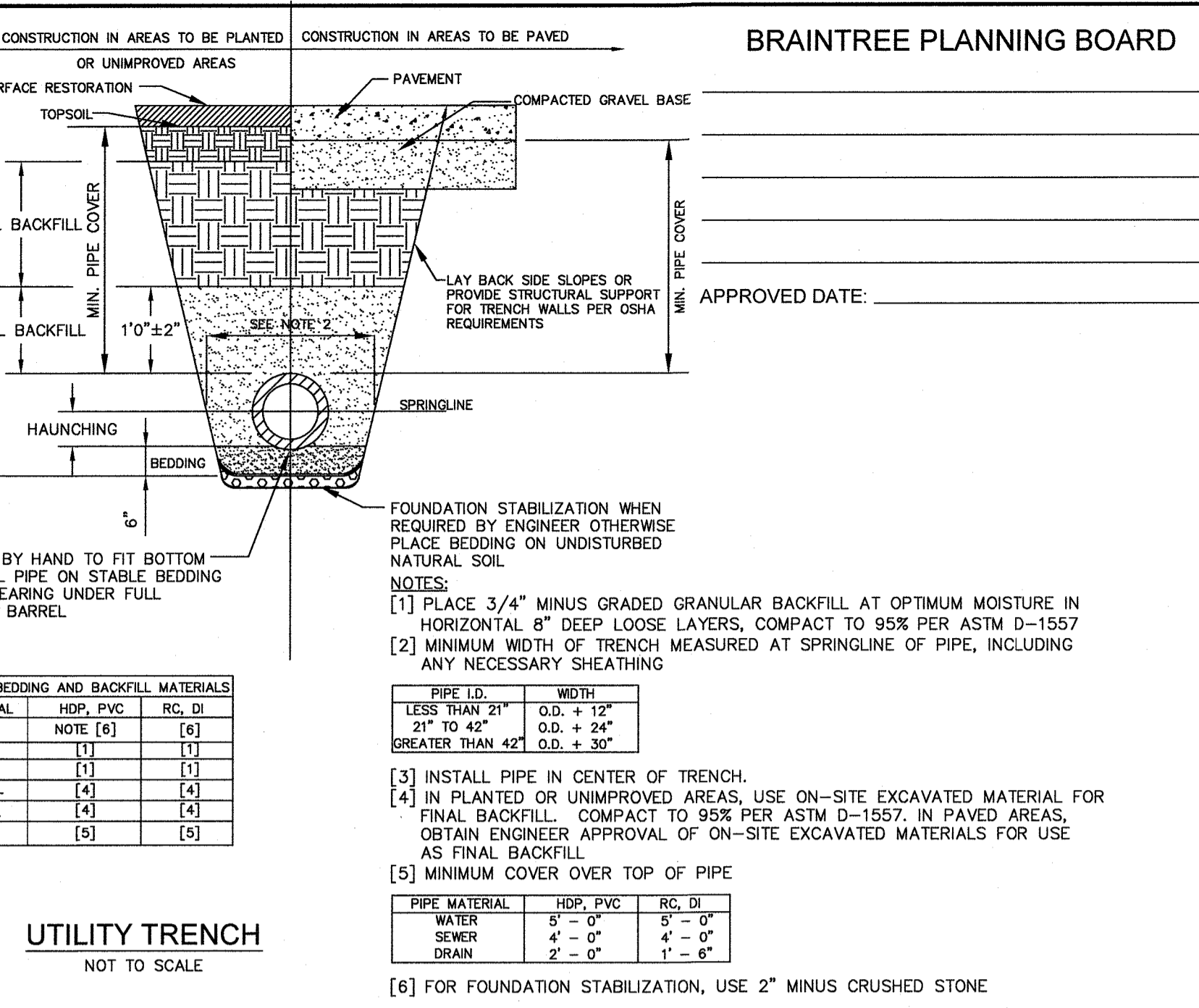
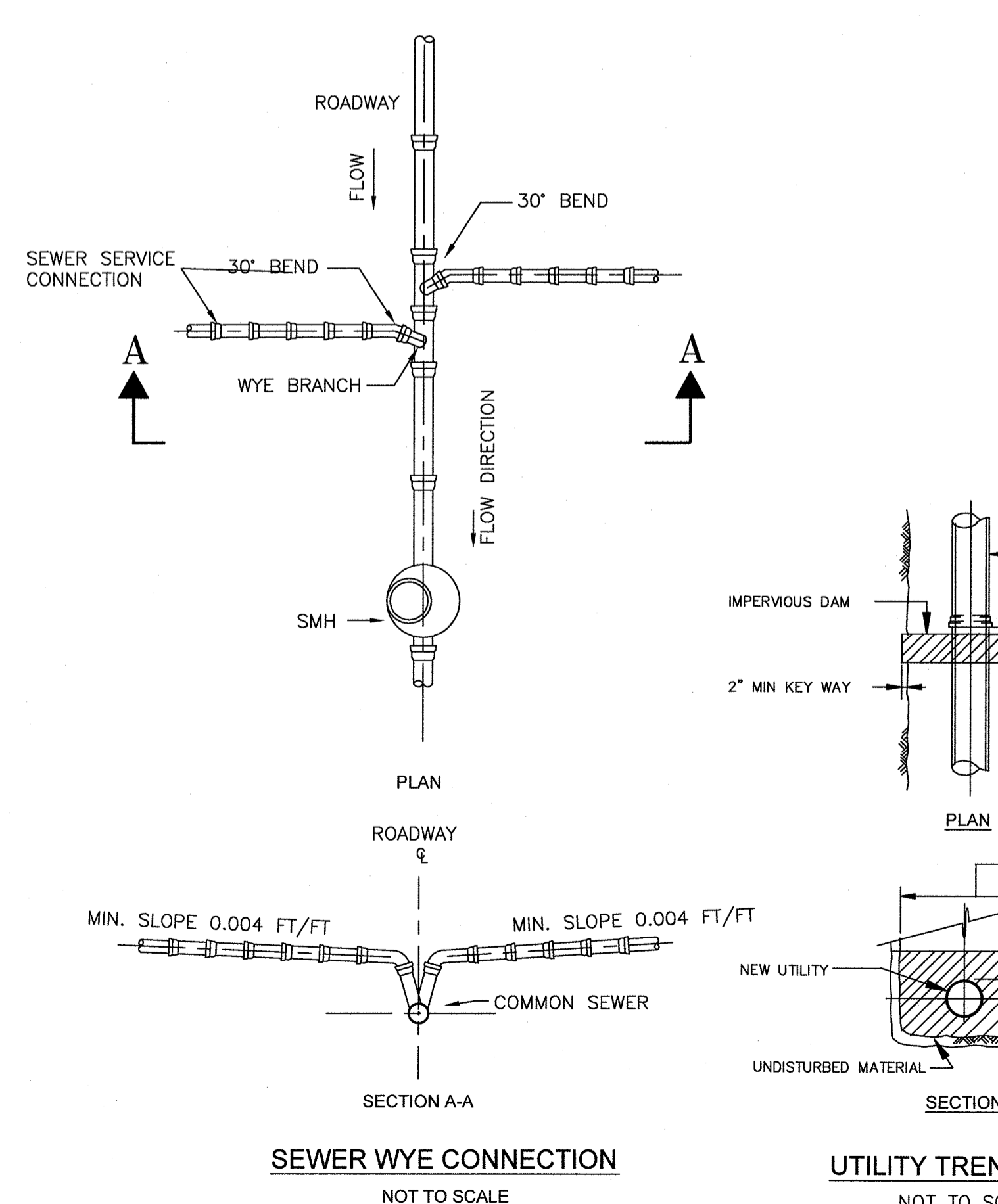
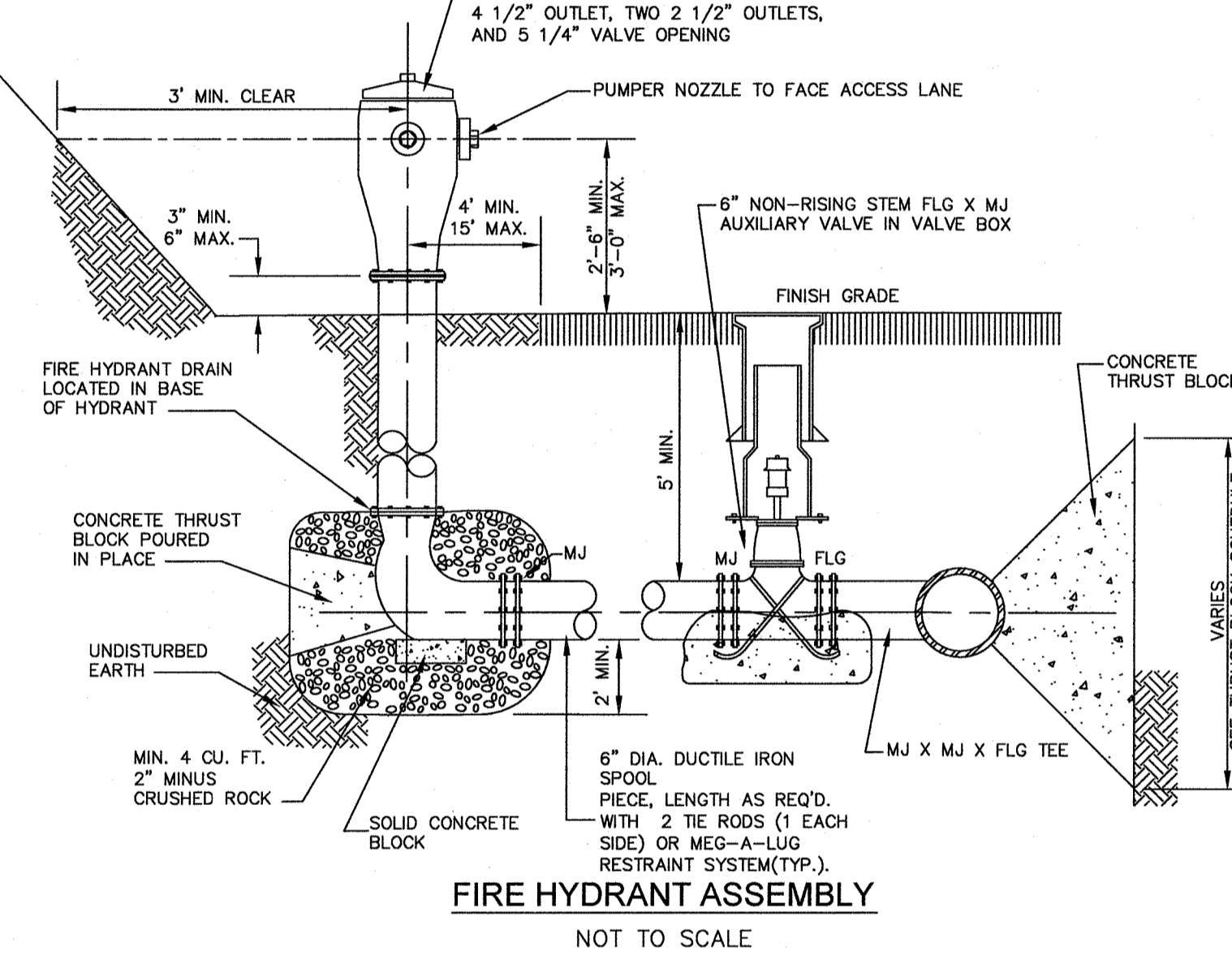
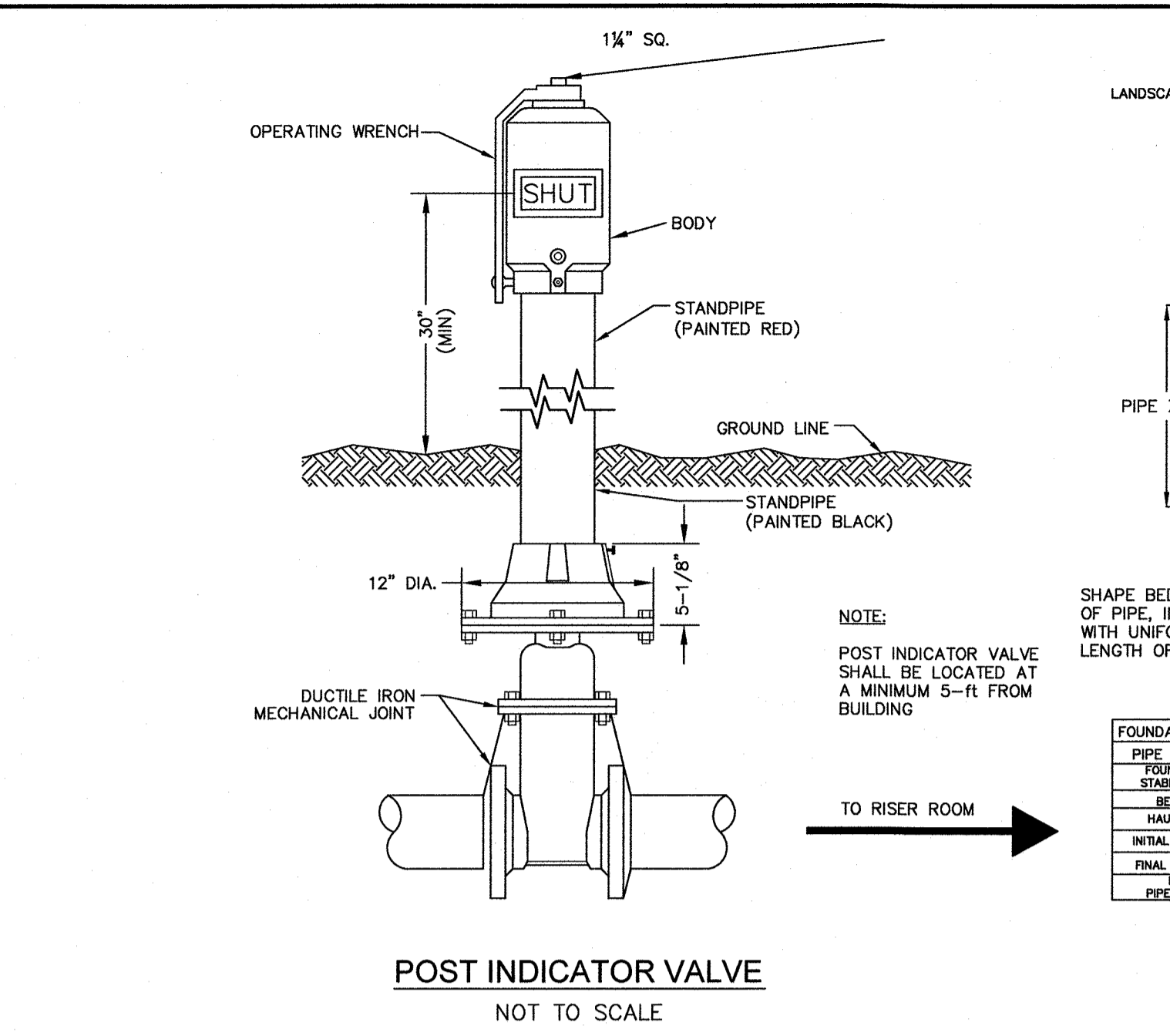
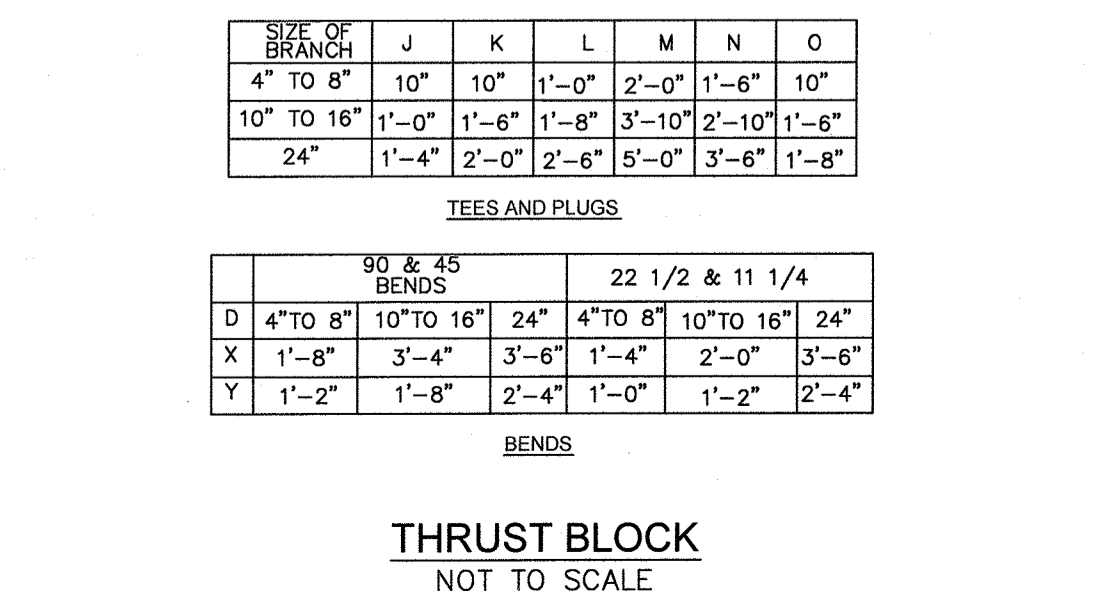
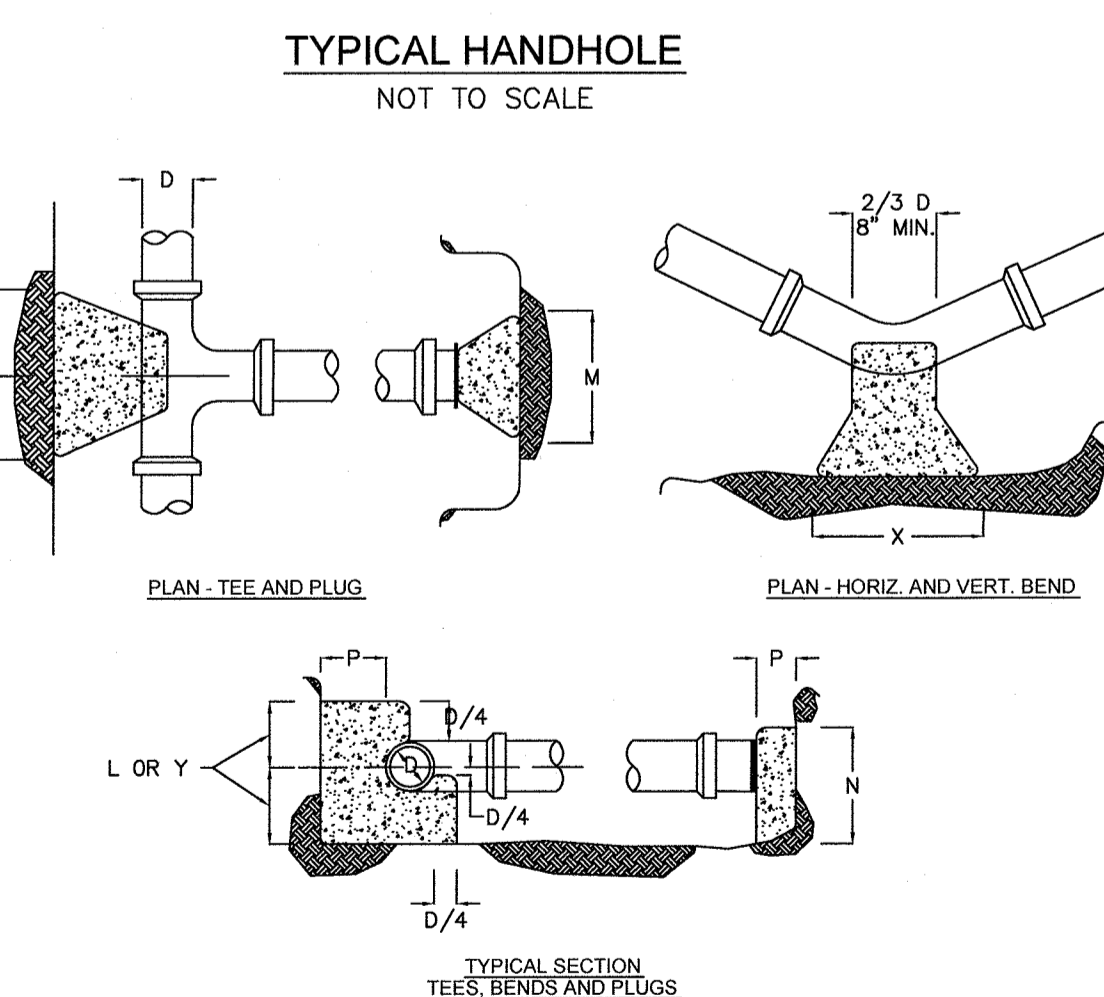
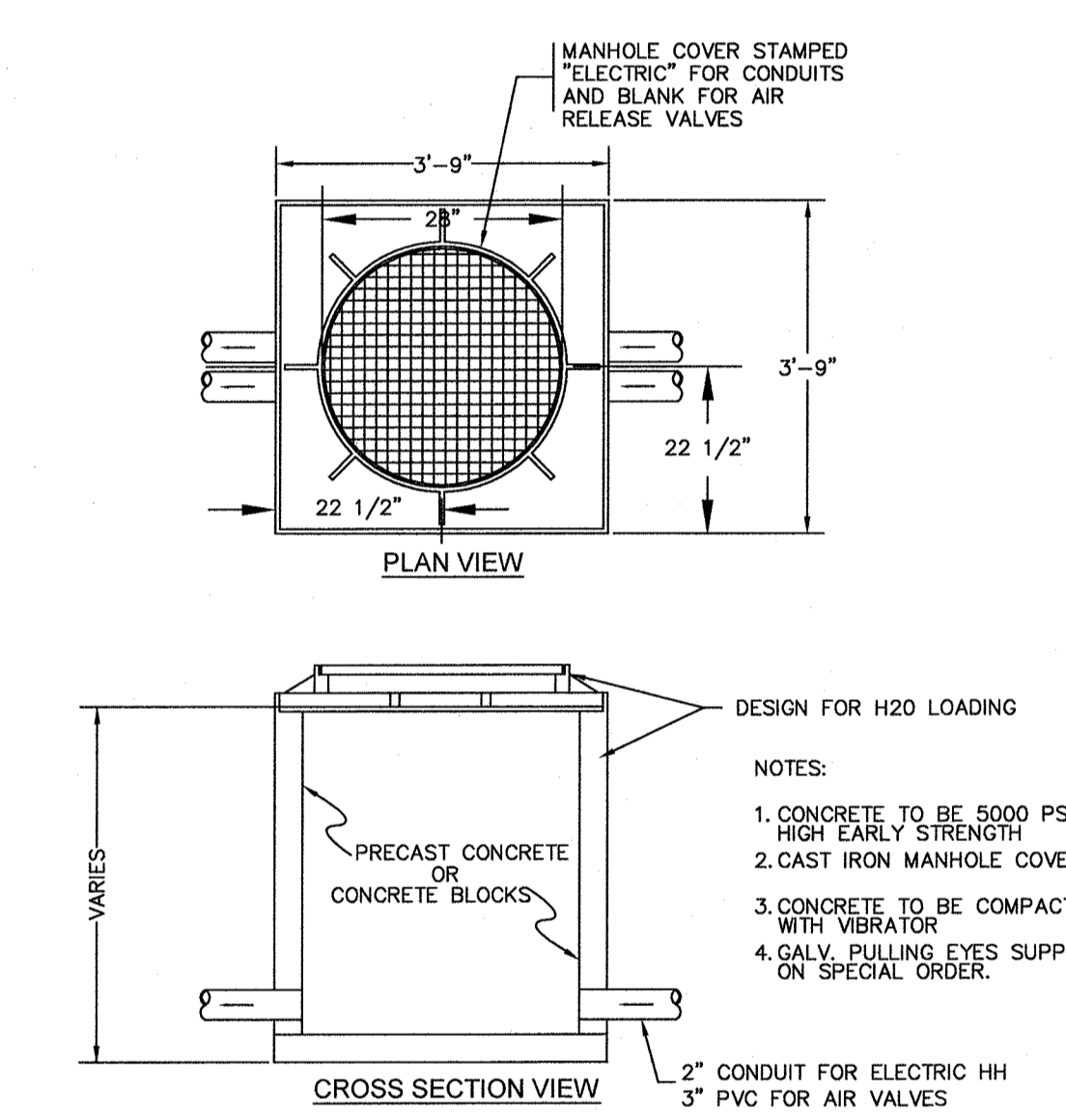




- NOTES:
1. MANUFACTURES TO MEET OR EXCEED ASTM C-478 & ASSTO M 199 SPECIFICATIONS.
  2. CONCRETE = 4,000 PSI MIN.
  3. STEEL REINFORCEMENT TO MEET OR EXCEED H-20 LOADING REQUIREMENTS.
  4. WATER PROOFING TO BE TWO COATS OF HEAVY BODIED TAR EMULSION.



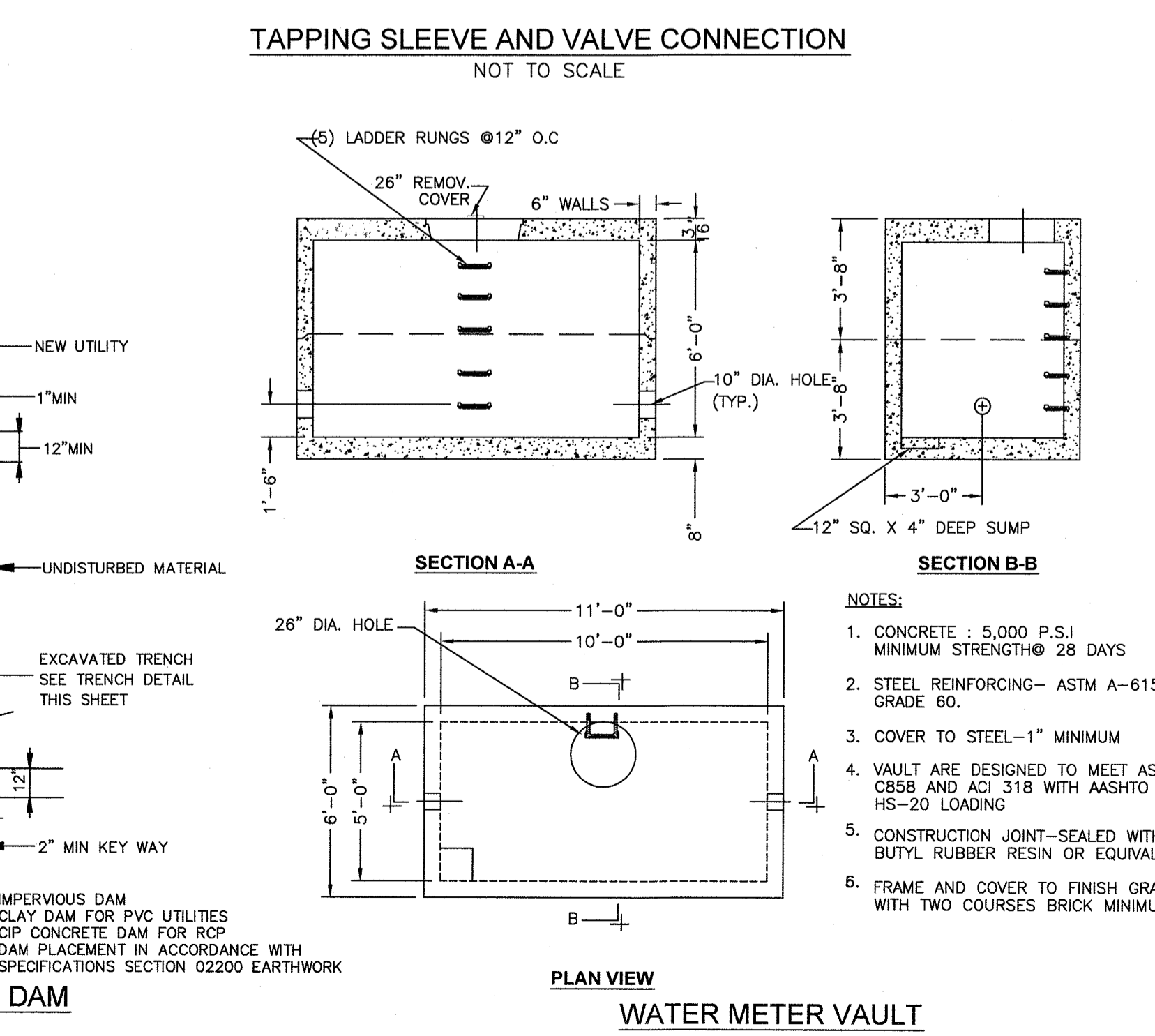
- NOTES:
1. HS20 LOADING REQUIRED.
  2. INSTALL VENT PIPES THROUGH BUILDING ROOF VENT PER MA BUILDING/PLUMBING CODES, OR AS DETAILED BY PLUMBER AND APPROVED BY PLUMBING INSPECTOR.



**RESTRAINED JOINT SCHEDULE**

PIPE SIZE	90°	45°	22 1/2°	11 1/4°
	D. I.	D. I.	D. I.	D. I.
12"	92'	38'	18'	9'
10"	78'	32'	16'	8'
8"	66'	27'	13'	7'
6"	51'	21'	10'	5'
4"	38'	16'	8'	4'

- NOTES:
1. RESTRAINED LENGTH FOR TEES, CROSSES, VALVES AND PLUGS SHALL EQUAL RESTRAINED LENGTH FOR 90° BENDS.
  2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING RESTRAINED JOINTS.
  3. THE SCHEDULE SHOWN IS FOR THE FOLLOWING SERVICE CONDITIONS: 150 psig INTERNAL PRESSURE; SOIL TYPE: SAND-SILT; 36 INCHES OF COVER AND TYPE 2 LAYING CONDITIONS.
  4. RESTRAINED LENGTHS SHOWN IN TABLE ARE MINIMUM LENGTHS (IN FEET) AND ARE REQUIRED IN EACH DIRECTION FROM FITTINGS OR VALVES.
  5. THRUST BLOCKS TO BE INSTALLED AS REQUIRED.



NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE BLDG FTPRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

DATE: JULY 30, 2015  
DRAWN: DRG/JNF  
SCALE: NOT TO SCALE



INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

**PETERSEN POOL**

**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
PLAINVILLE, MA 02762  
TEL. (508) 695-2221 FAX. (508) 695-2219

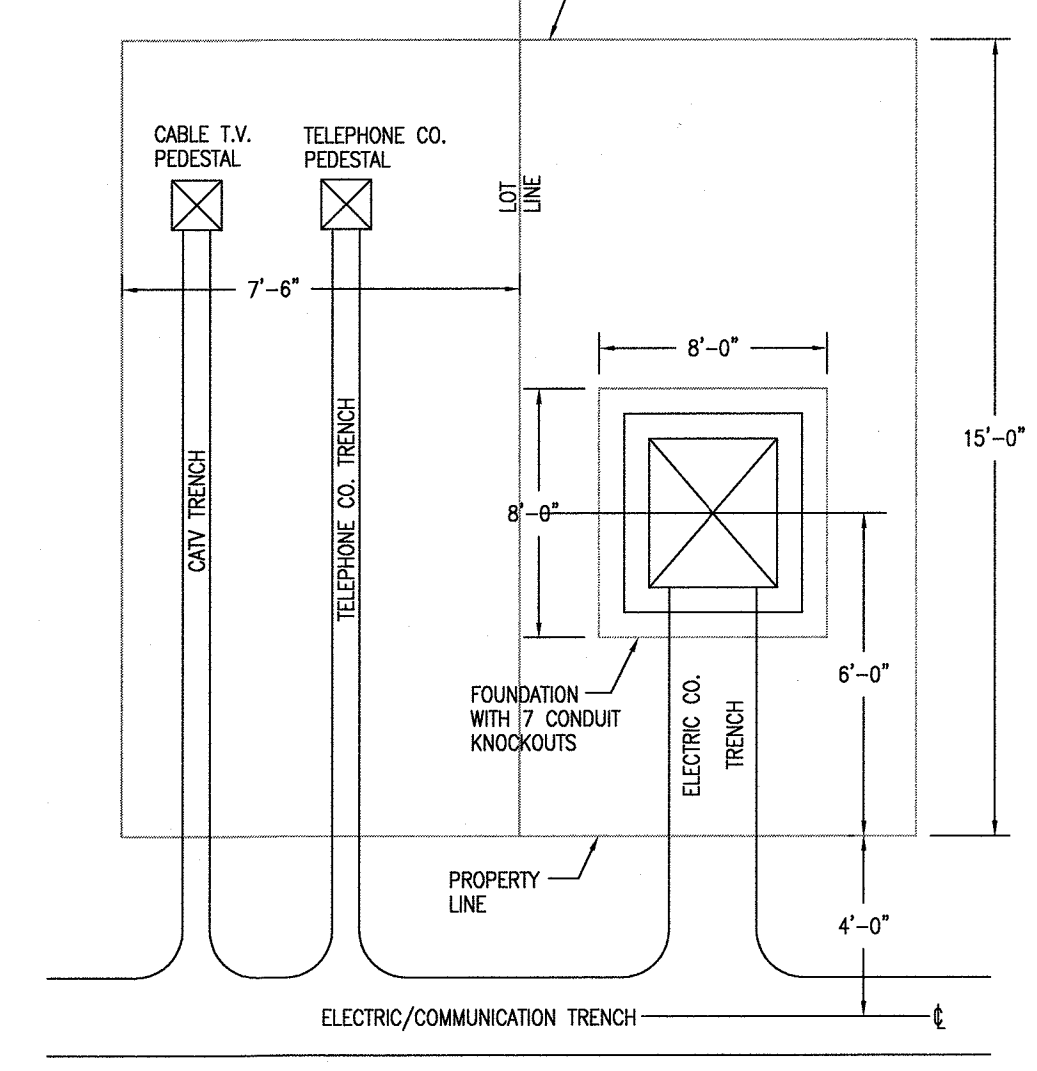
**TYPICAL DETAILS**  
**C-6.1**  
SHEET 17 OF 19  
**1410.00**



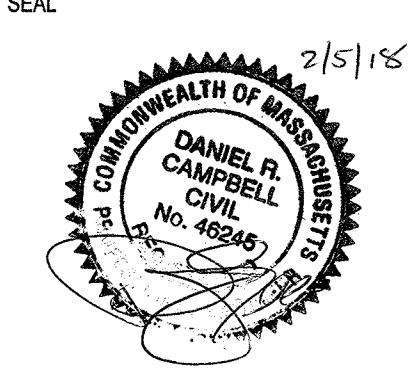
NO	DATE	REVISIONS
1	12/21/2015	PERMITTING SUBMISSION
2	03/16/2016	COMMENT RESPONSE
3	07/26/2016	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE/BLDG FTRINT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

APPROVED DATE:

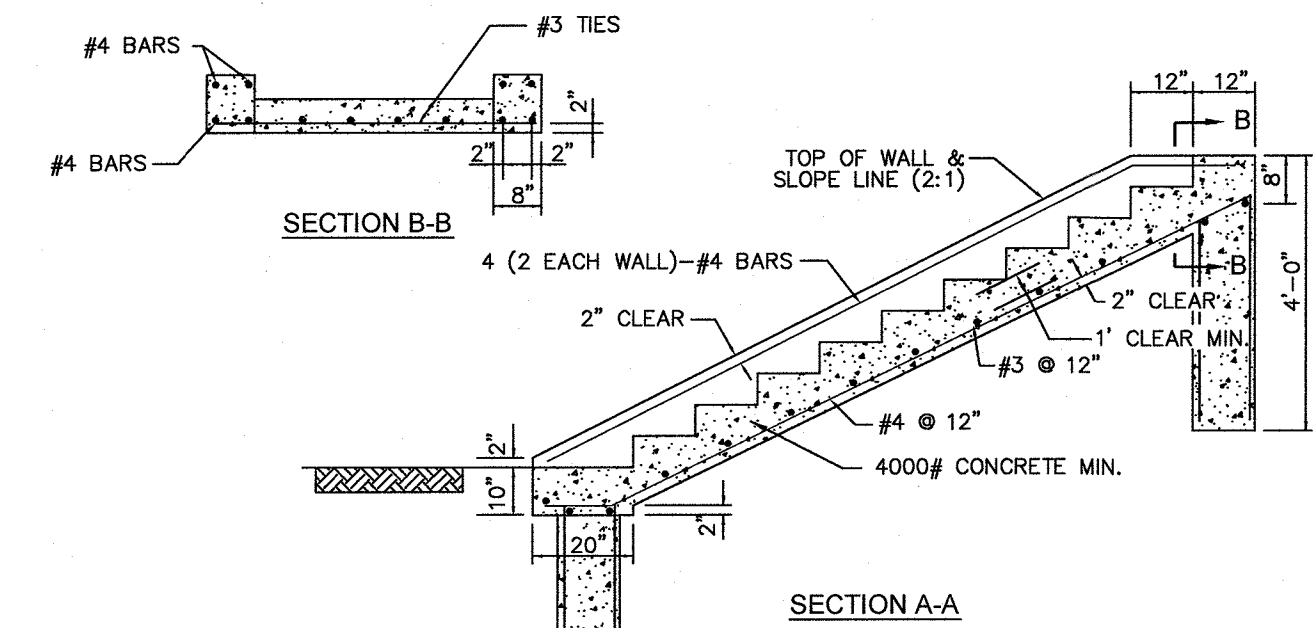
15' SQUARE UTILITY EQUIPMENT EASEMENT ON PRIVATE PROPERTIES



TYPICAL UTILITY LAYOUT NOT TO SCALE

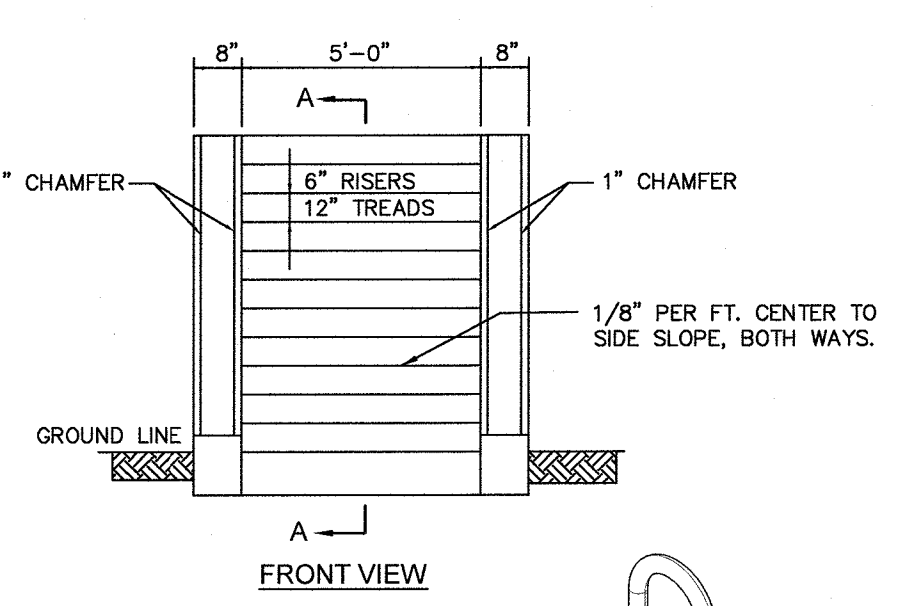


DATE: JULY 30, 2015  
DRAWN: DRC/NF  
SCALE: NOT TO SCALE

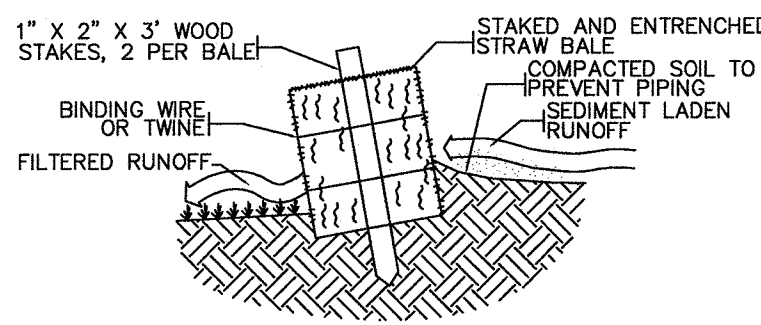


- NOTES:
1. 12" TREAD, 6" RISER TYPICAL
  2. RUBBED FINISH ON RISER, NON-SLIP BROOM FINISH ON TREADS
  3. AT TOP AND BOTTOM OF STAIRS 24" EXPANSION DOWEL WITH GREASED SLEEVE AT 12" REQUIRED WHEN CONNECTING STAIRS TO CONCRETE SIDEWALK
  4. WIDTH OF STEPS SHALL BE AS INDICATED ON THE PLANS AS MEASURED FROM THE INSIDE FACE OF CHEEK WALLS
  5. MINIMUM OF 4" SHALL BE MAINTAINED BETWEEN INSIDE FACE OF CHEEK WALLS AND HANDRAILS.

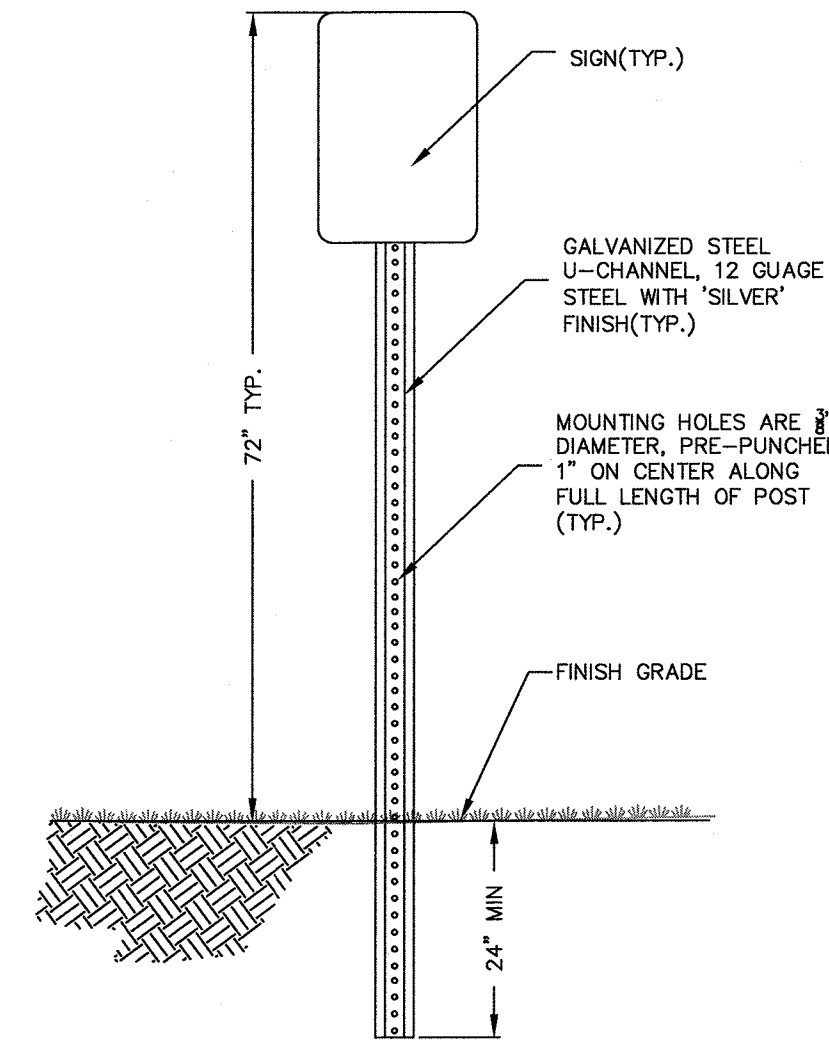
CEMENT CONCRETE STEPS NOT TO SCALE



FRONT VIEW

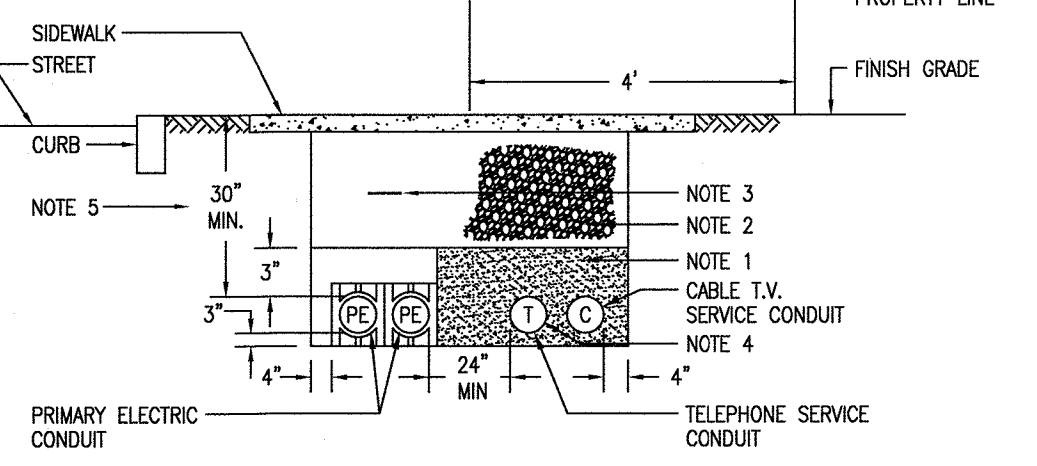


CROSS-SECTION OF STRAW BALE EROSION CHECK NOT TO SCALE

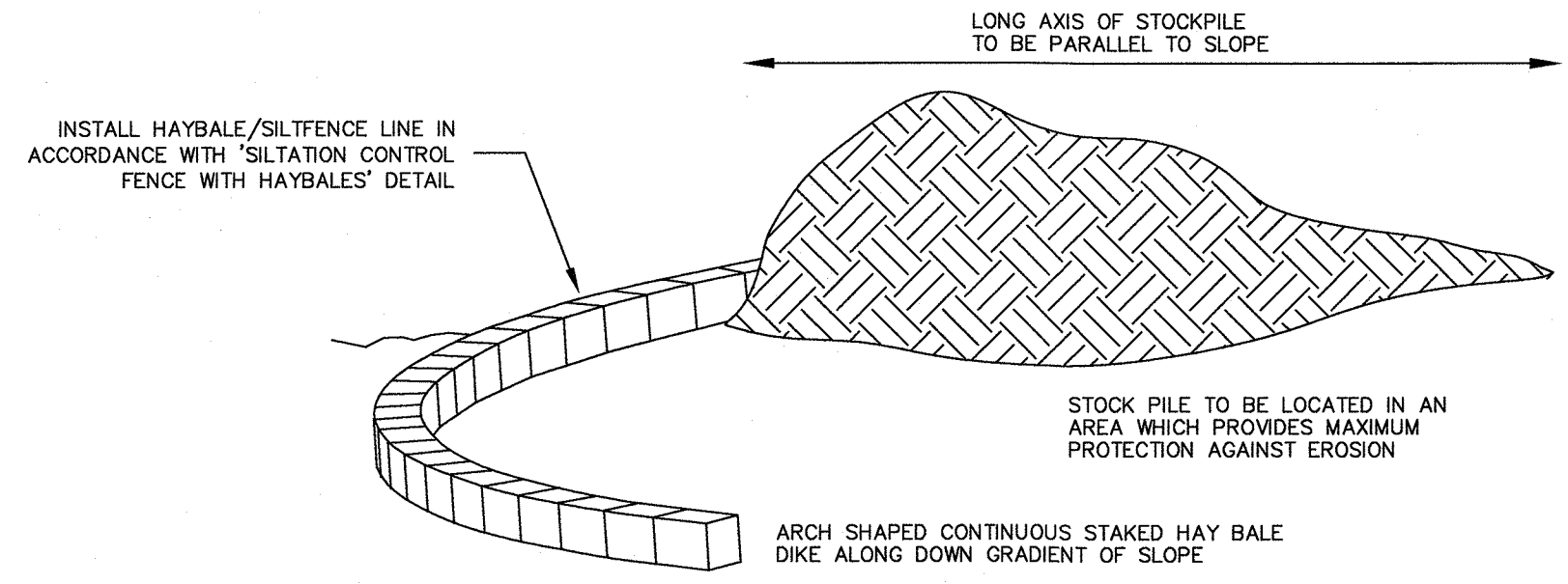


ON-SITE SIGN MOUNTING NOT TO SCALE

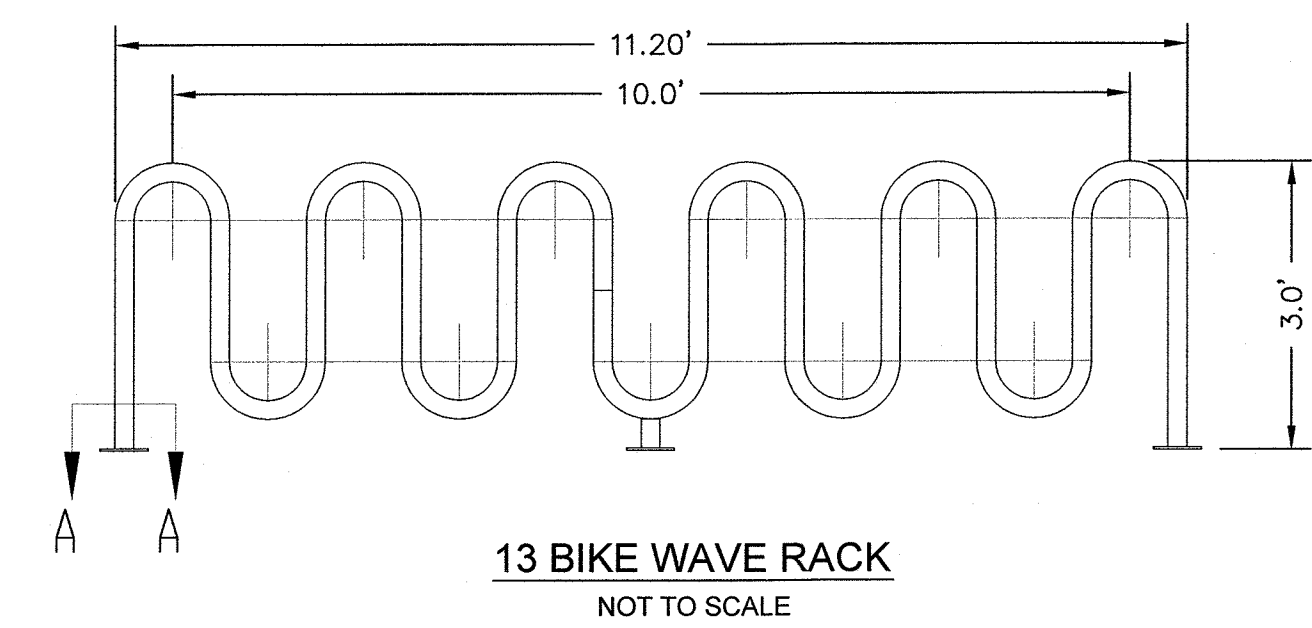
- NOTES:
1. SCREENED, WASHED SAND.
  2. BACKFILL TO BE FREE OF STONES GREATER THAN ONE INCH AND SHALL NOT CONTAIN ASHES, CINDERS, SHELL OR FROZEN MATERIAL.
  3. WARNING TAPE TO BE PLACED 12" BELOW FINISH GRADE DIRECTLY ABOVE ELECTRIC CONDUIT.
  4. MINIMUM SEPARATION BETWEEN ELECTRIC CONDUIT AND ANY COMMUNICATION CONDUIT/CABLE SHALL BE 24". MINIMUM BURIAL DEPTH TO TOP OF COMMUNICATION CONDUIT/CABLE SHALL BE 24".
  5. 30" MINIMUM BURIAL DEPTH FROM FINISH GRADE TO TOP OF SECONDARY CONDUIT.
  6. NOT USED.
  7. CONDUIT MINIMUM BURIAL DEPTH TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO PREVENT DAMAGE FROM TRAFFIC.



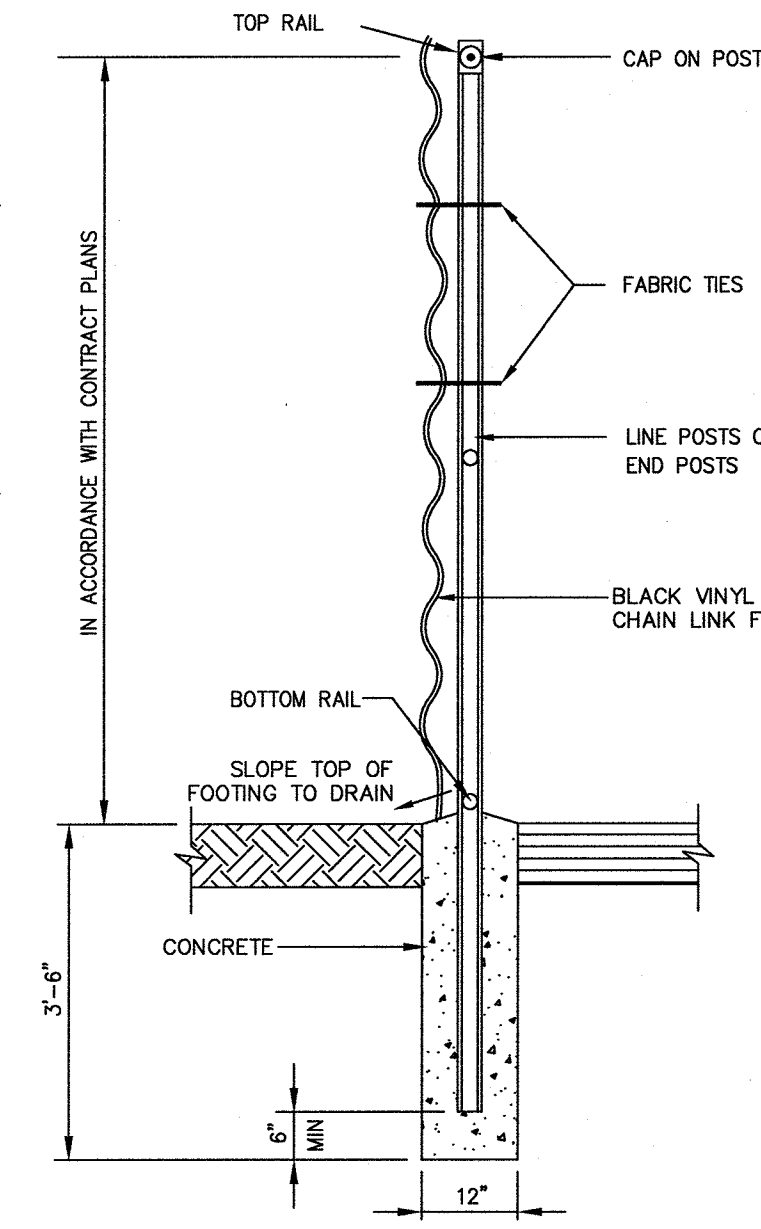
DUCTBANK NOT TO SCALE



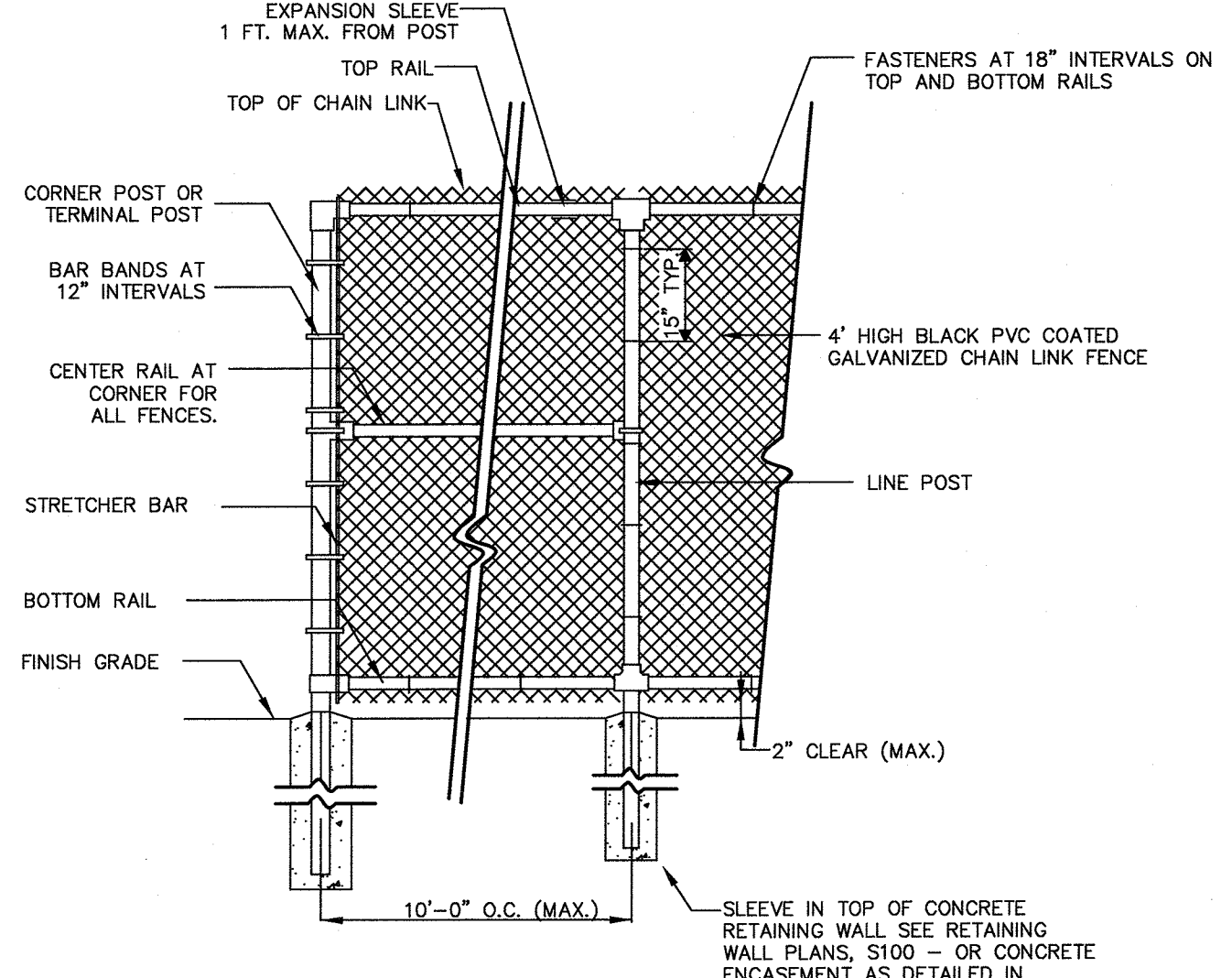
TEMPORARY MATERIAL STOCKPILE NOT TO SCALE



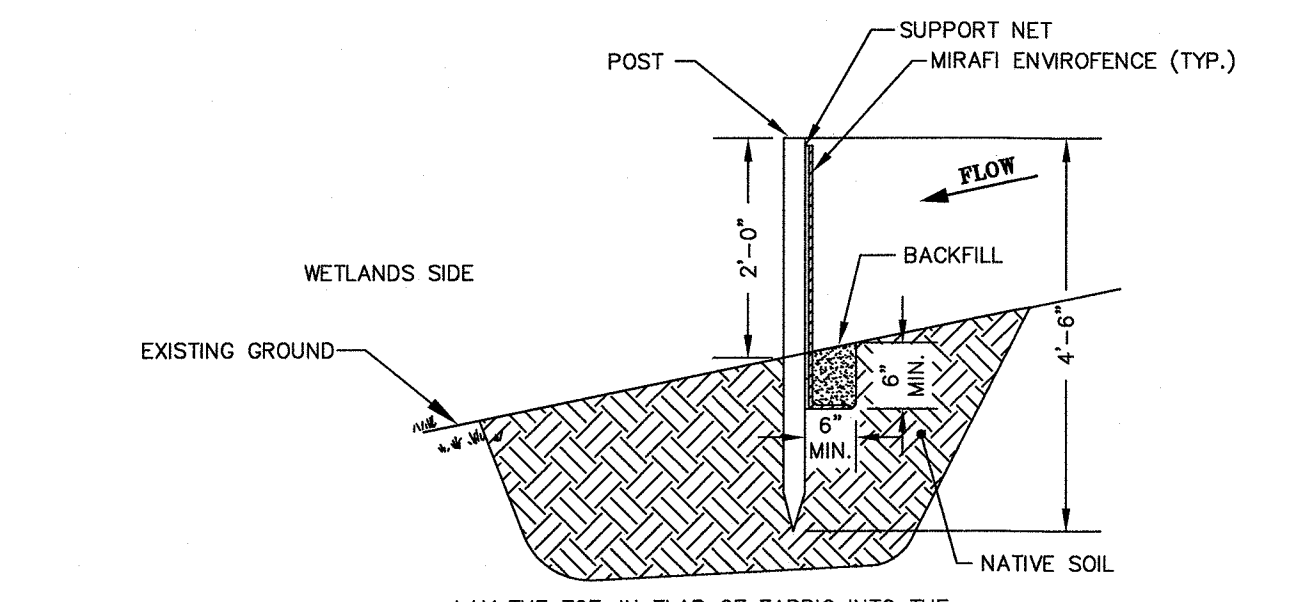
13 BIKE WAVE RACK NOT TO SCALE



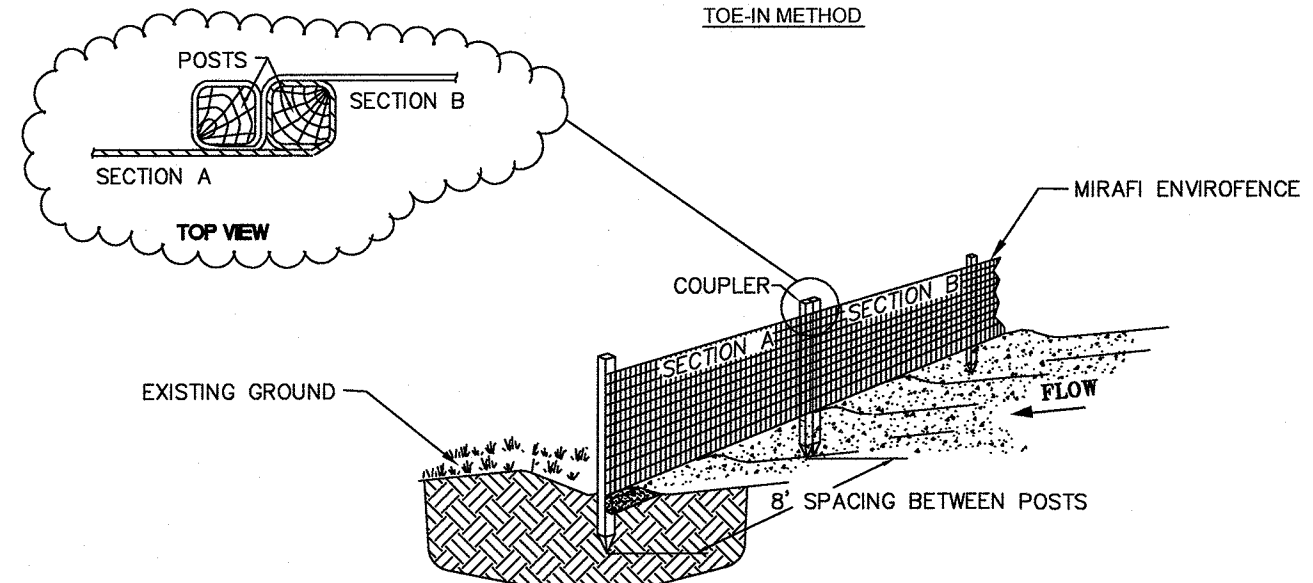
CHAIN LINK FENCE SECTION (TYPICAL) NOT TO SCALE



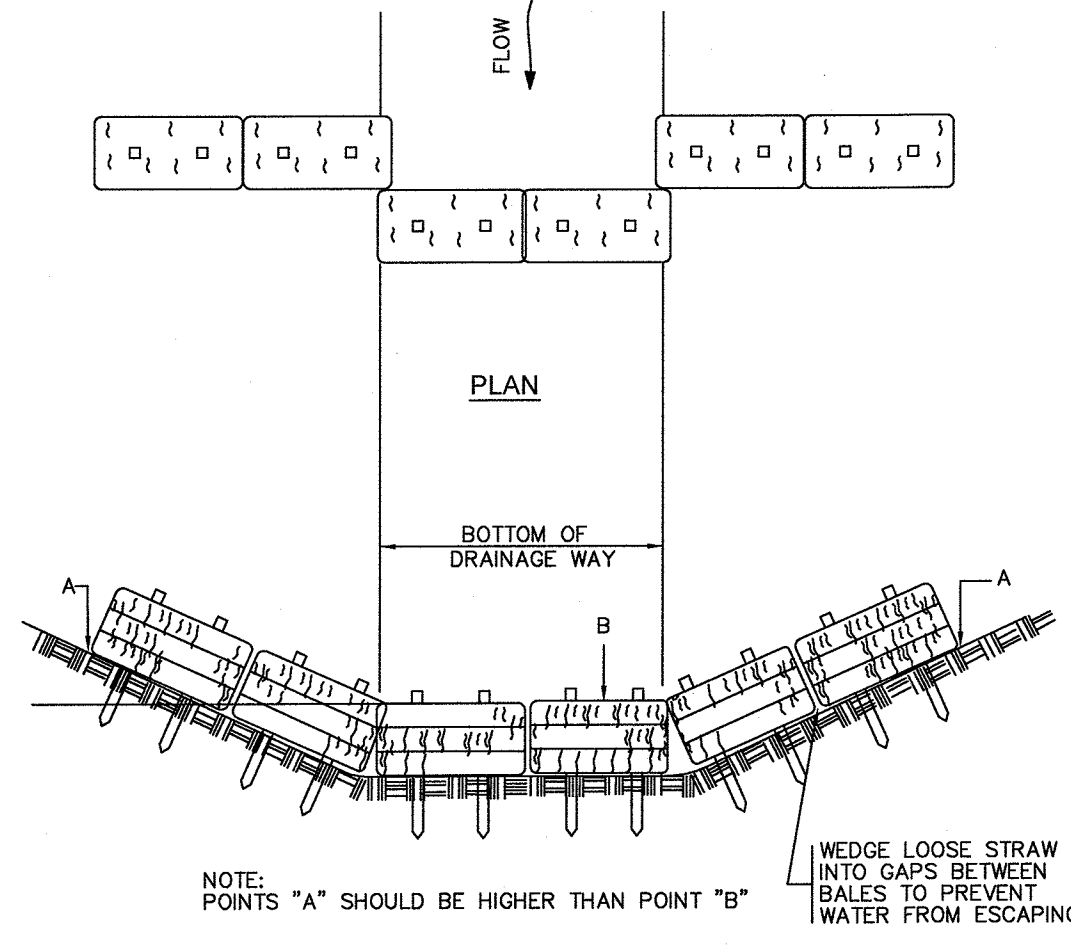
CHAIN LINK FENCE



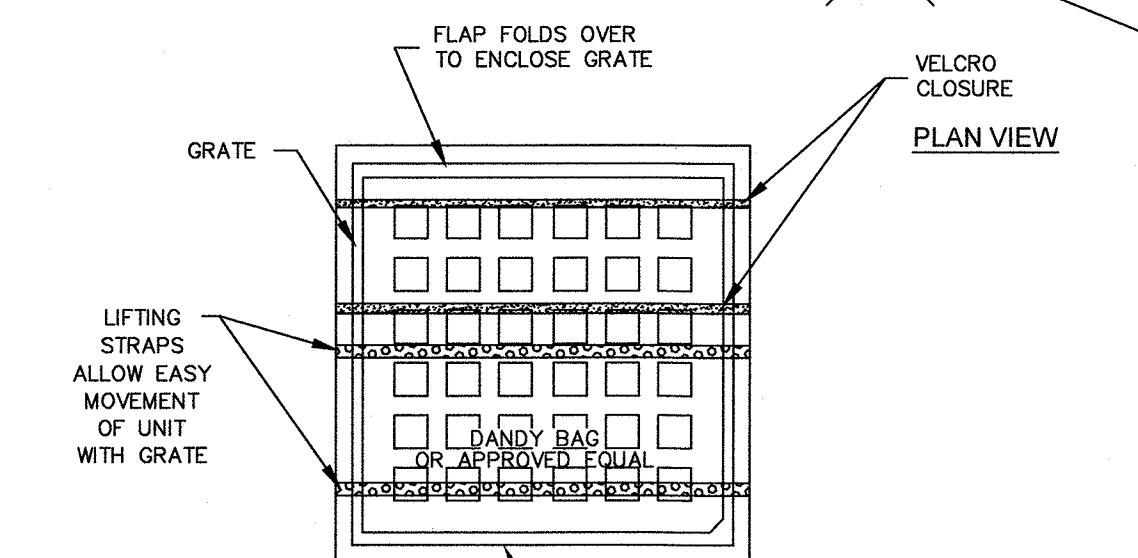
SILTATION CONTROL FENCE NOT TO SCALE



GRASS SWALE NOT TO SCALE

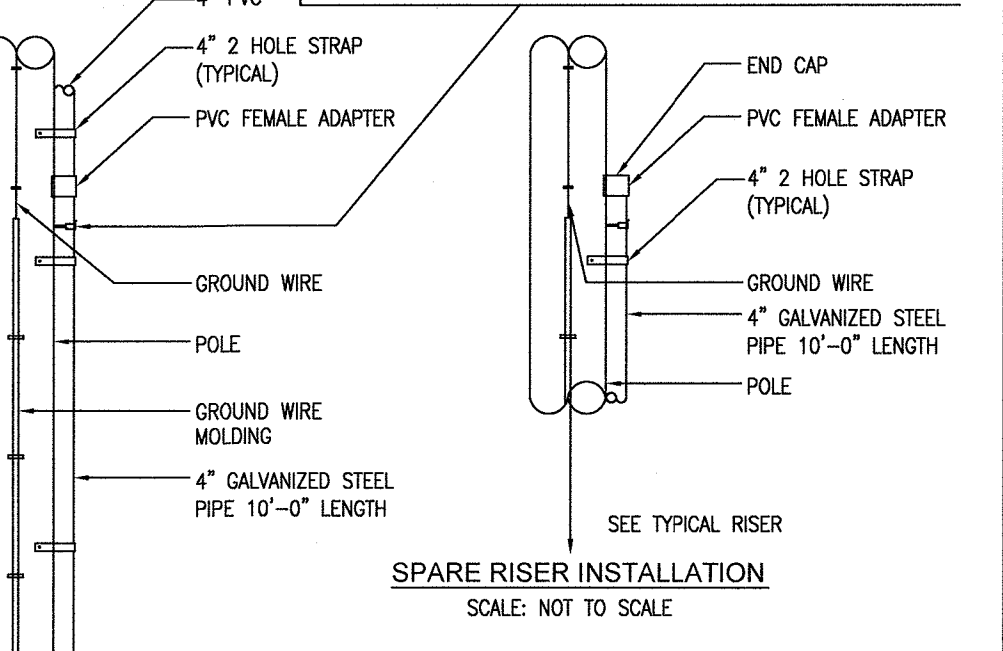
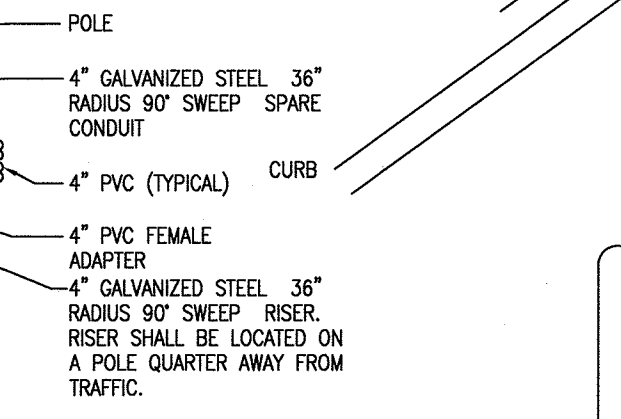


EROSION CHECK NOT TO SCALE

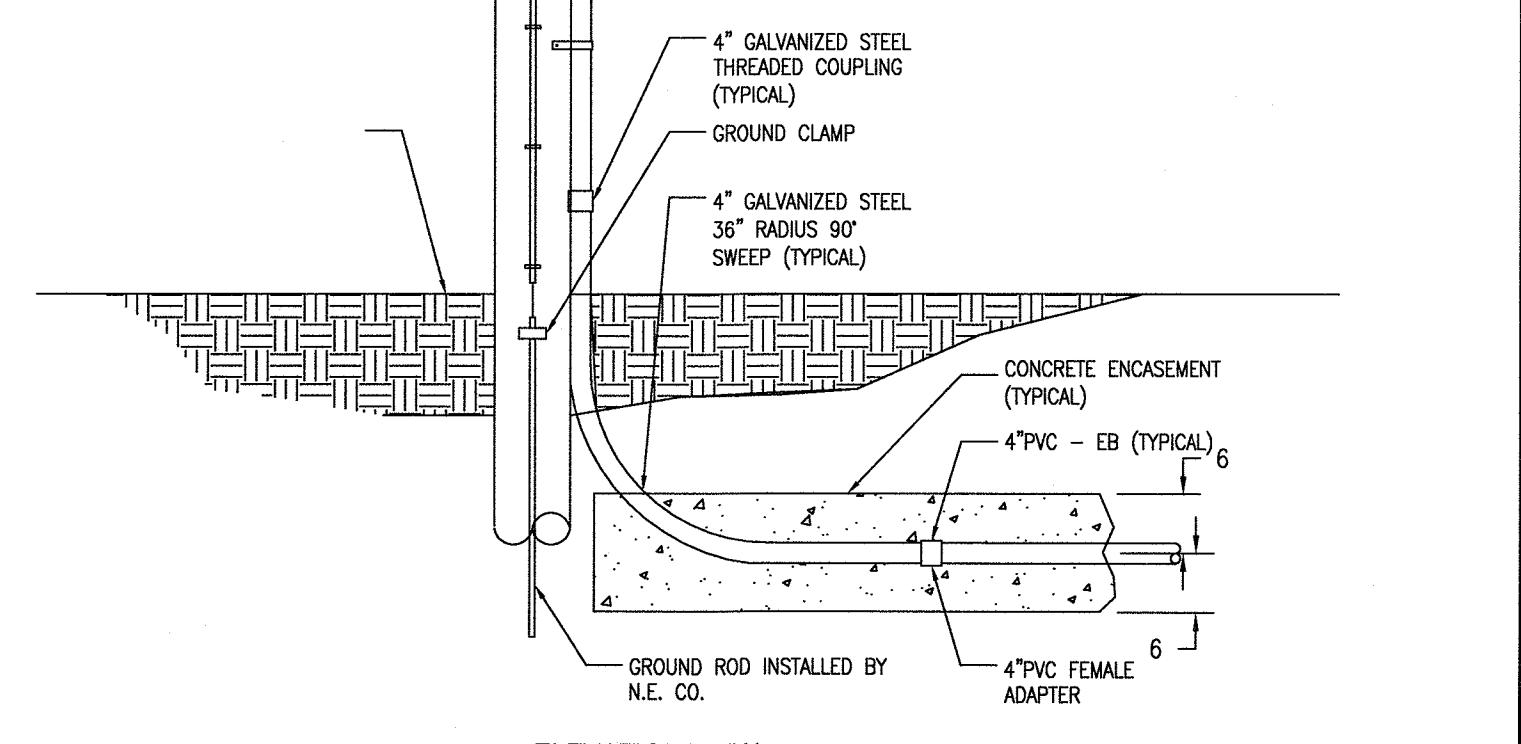


- NOTES:
- INSTALLATION: THE EMPTY DANDY BAG, OR APPROVED EQUAL, SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.
- MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG, AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

CATCH BASIN INLET PROTECTION NOT TO SCALE



SPARE RISER INSTALLATION SCALE: NOT TO SCALE



RISER POLE DETAIL NOT TO SCALE

**PETERSEN POOL**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

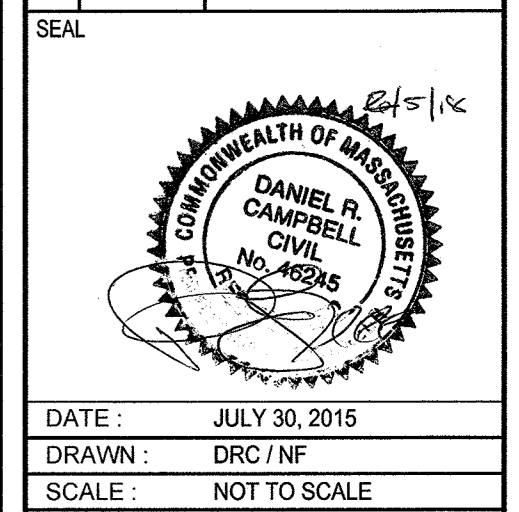
**LEVEL**  
DESIGN GROUP  
CIVIL ENGINEERING / LAND SURVEYING  
249 SOUTH STREET  
UNIT 1  
PLAINVILLE, MA 02762  
TEL. (508) 695-2221 FAX. (508) 695-2219

TYPICAL DETAILS  
**C-6.2**  
SHEET 18 OF 19  
**1410.00**

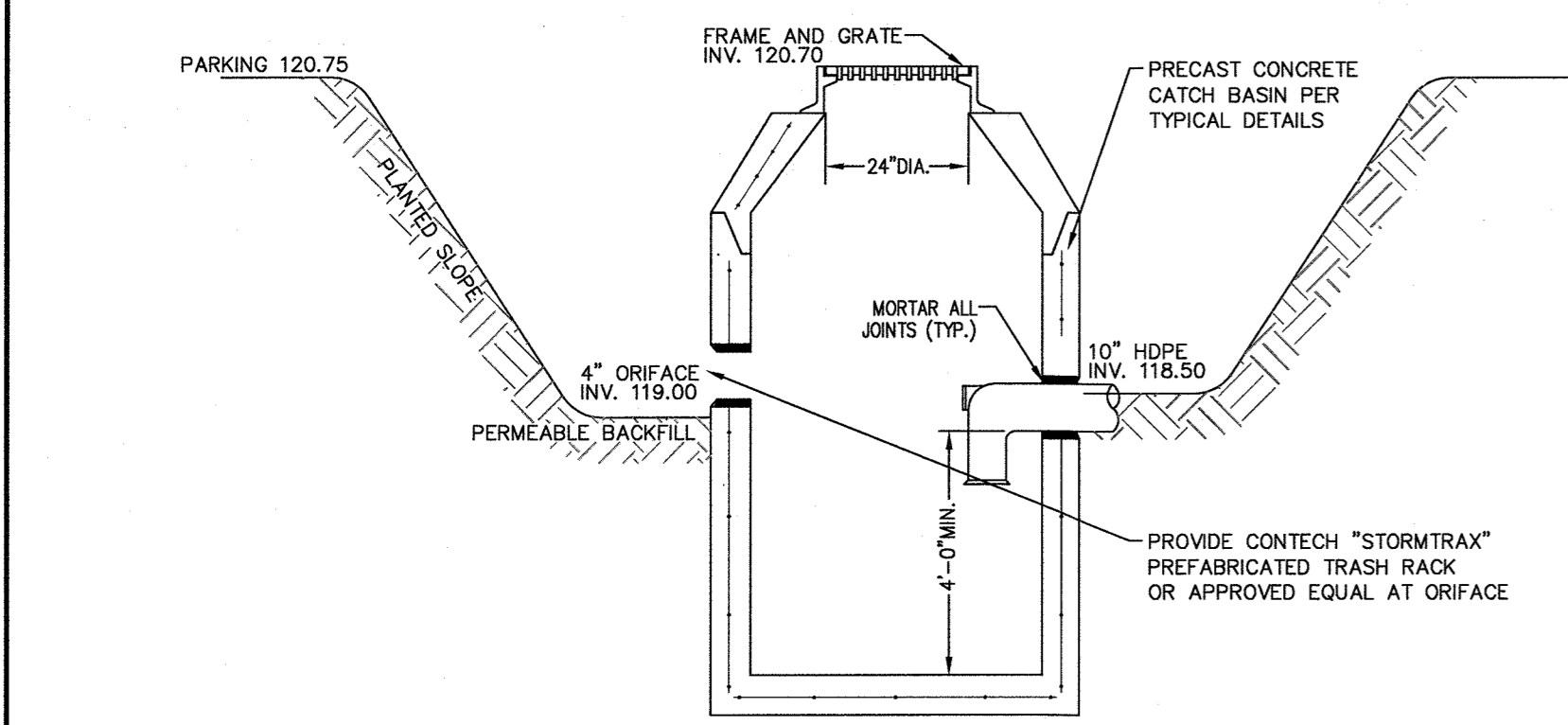


NO	DATE	REVISIONS
1	12/21/2016	PERMITTING SUBMISSION
2	03/16/2018	COMMENT RESPONSE
3	07/26/2018	COMMENT RESPONSE
5	01/13/2017	COMMENT RESPONSE/BLDG FRMIT
6	05/16/2017	COMMENT RESPONSE
7	08/09/2017	COMMENT RESPONSE
8	01/16/2018	COMMENT RESPONSE
9	02/05/2018	APPROVAL CONDITIONS

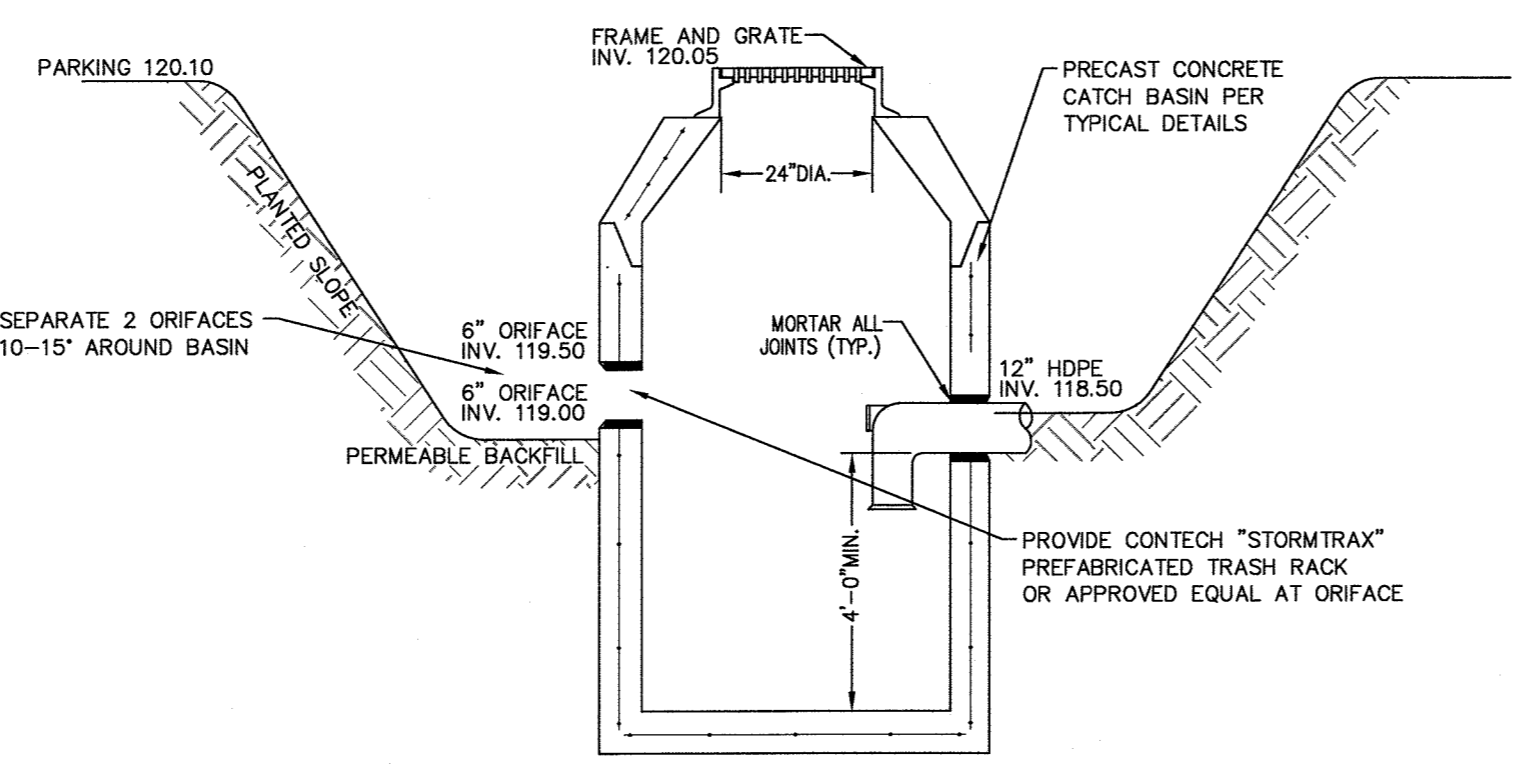
APPROVED DATE: \_\_\_\_\_



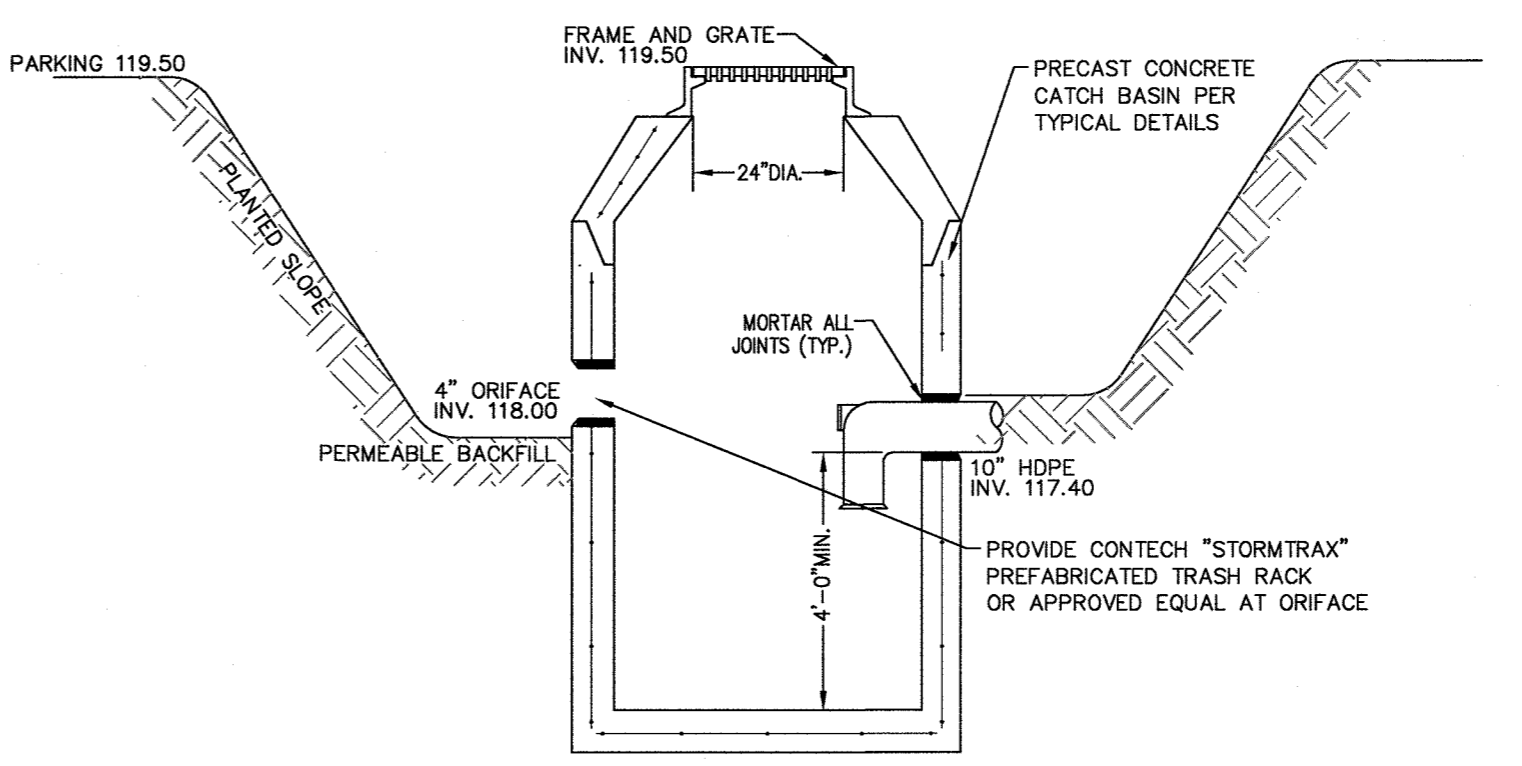
DATE: JULY 30, 2015  
DRAWN: DRG/NF  
SCALE: NOT TO SCALE



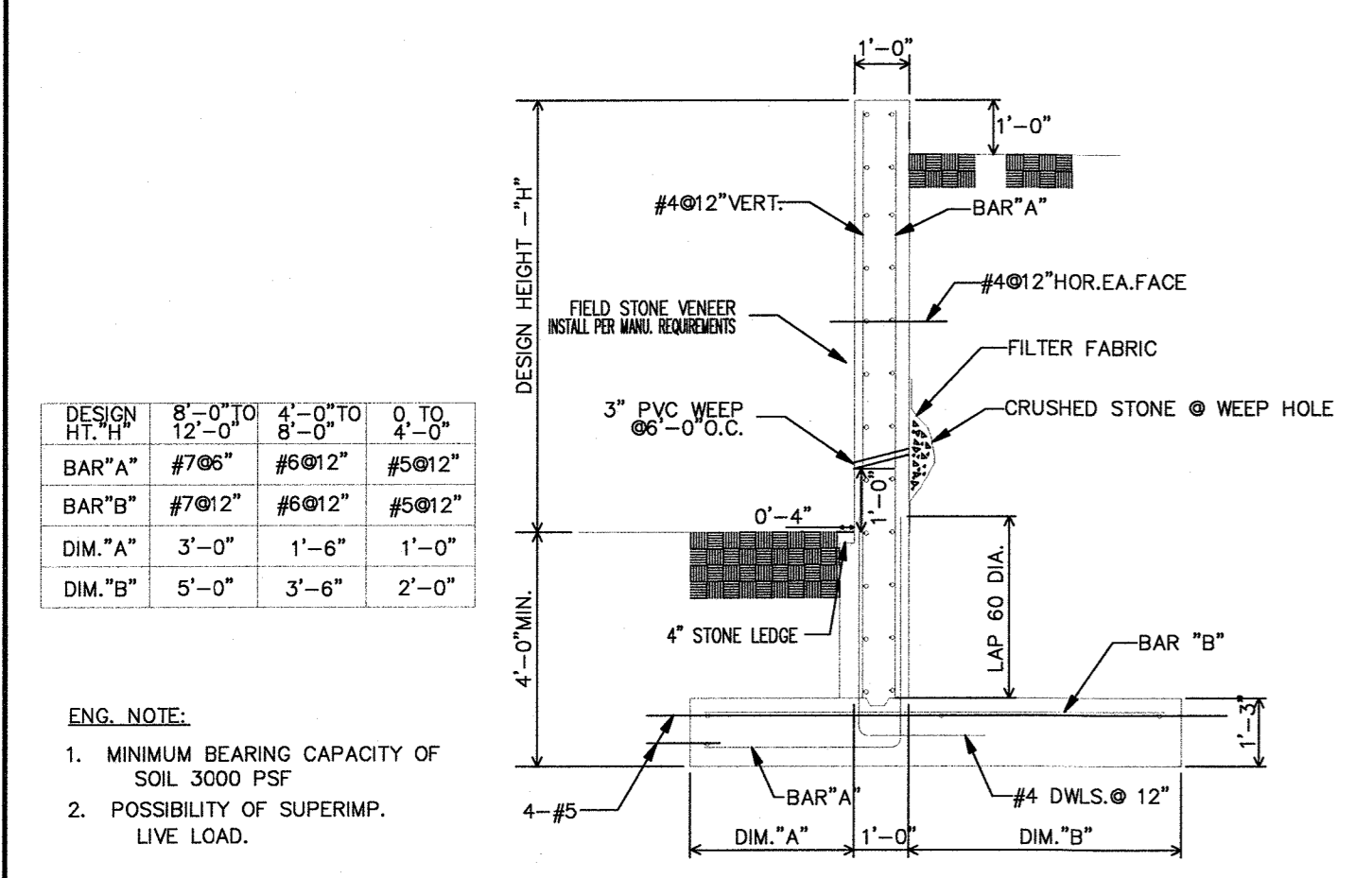
**PARKING BIO-RETENTION BASIN 1P**  
NOT TO SCALE



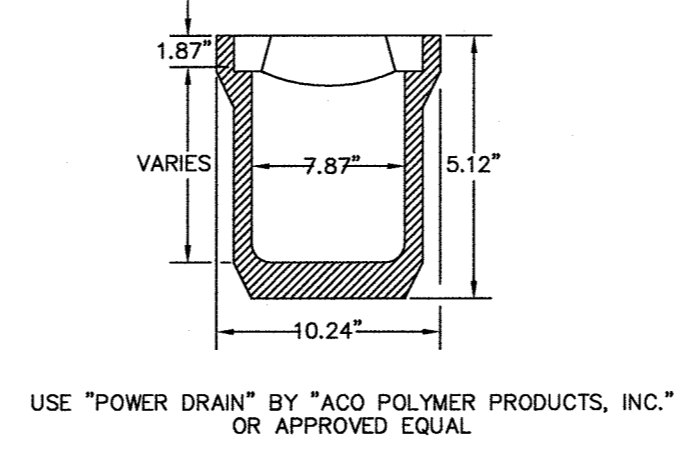
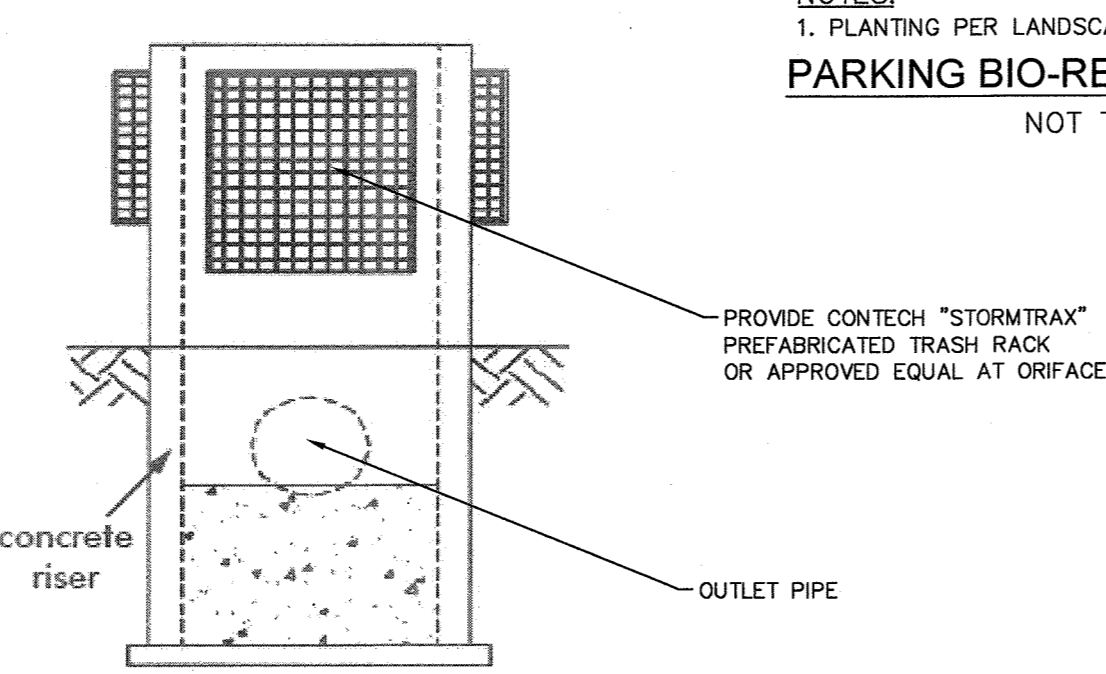
**PARKING BIO-RETENTION BASIN 2P**  
NOT TO SCALE



**PARKING BIO-RETENTION BASIN 3P**  
NOT TO SCALE



- ENG. NOTE:**
- MINIMUM BEARING CAPACITY OF SOIL 3000 PSF
  - POSSIBILITY OF SUPERIMP. LIVE LOAD.



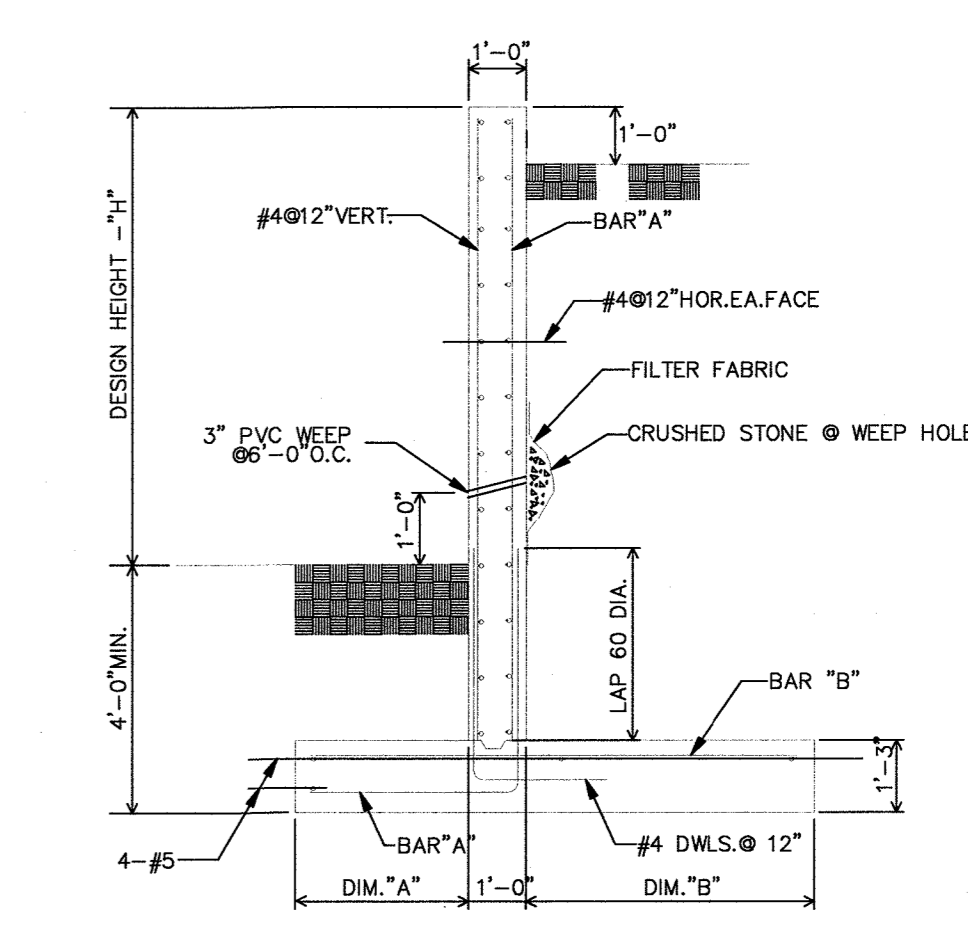
**H 200 CHANNEL SYSTEM**

PART NO.	DESCRIPTION
H100SK13	CHANNEL AND GRATE
63456	CHANNEL GRATE AND LOCKING DEVICE
93460	CLOSING END CAP
93488	OUTLET BOTTOM STRAINER WITH 6" PIPE OUTLET

**TRENCH DRAIN**  
NOT TO SCALE

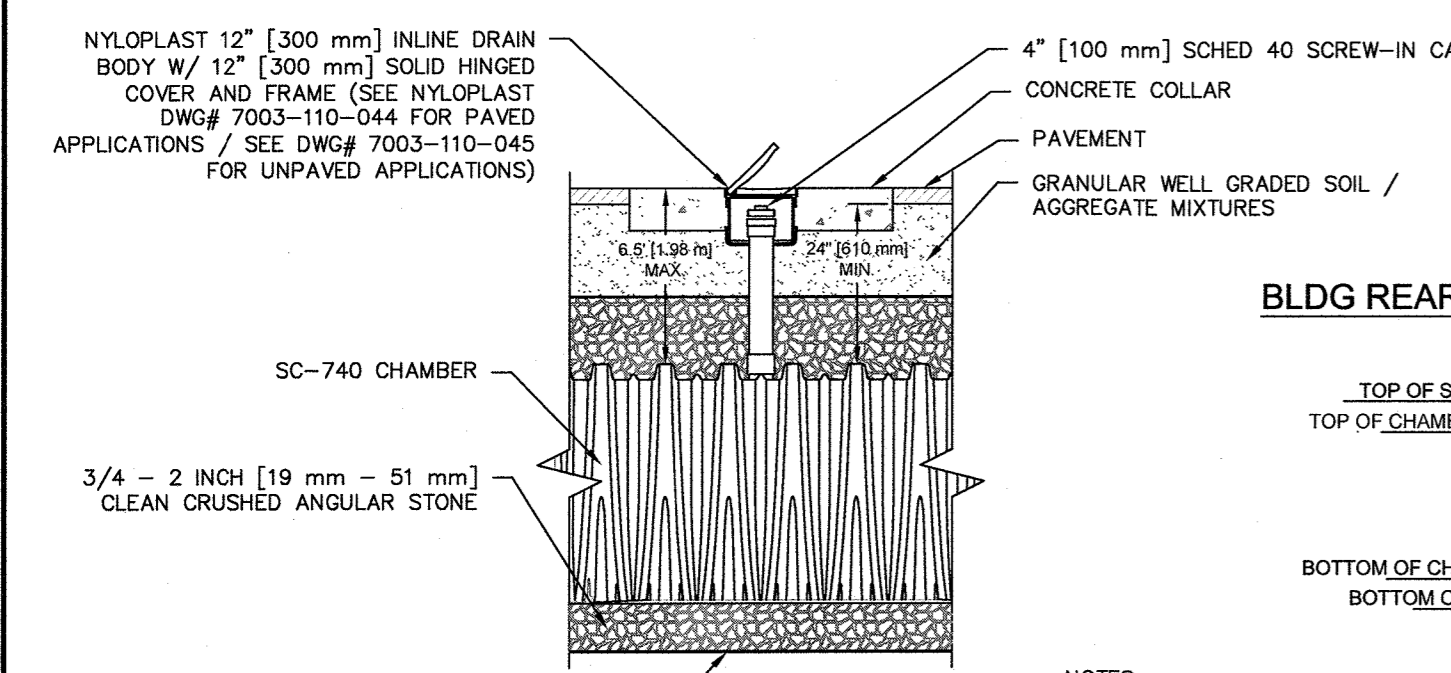
DESIGN HT. "H"	8'-0" TO 12'-0"	4'-0" TO 8'-0"	0 TO 4'-0"
BAR "A"	#7@6"	#6@12"	#5@12"
BAR "B"	#7@12"	#6@12"	#5@12"
DIM. "A"	3'-0"	1'-6"	1'-0"
DIM. "B"	5'-0"	3'-6"	2'-0"

- ENG. NOTE:**
- MINIMUM BEARING CAPACITY OF SOIL 3000 PSF
  - POSSIBILITY OF SUPERIMP. LIVE LOAD.



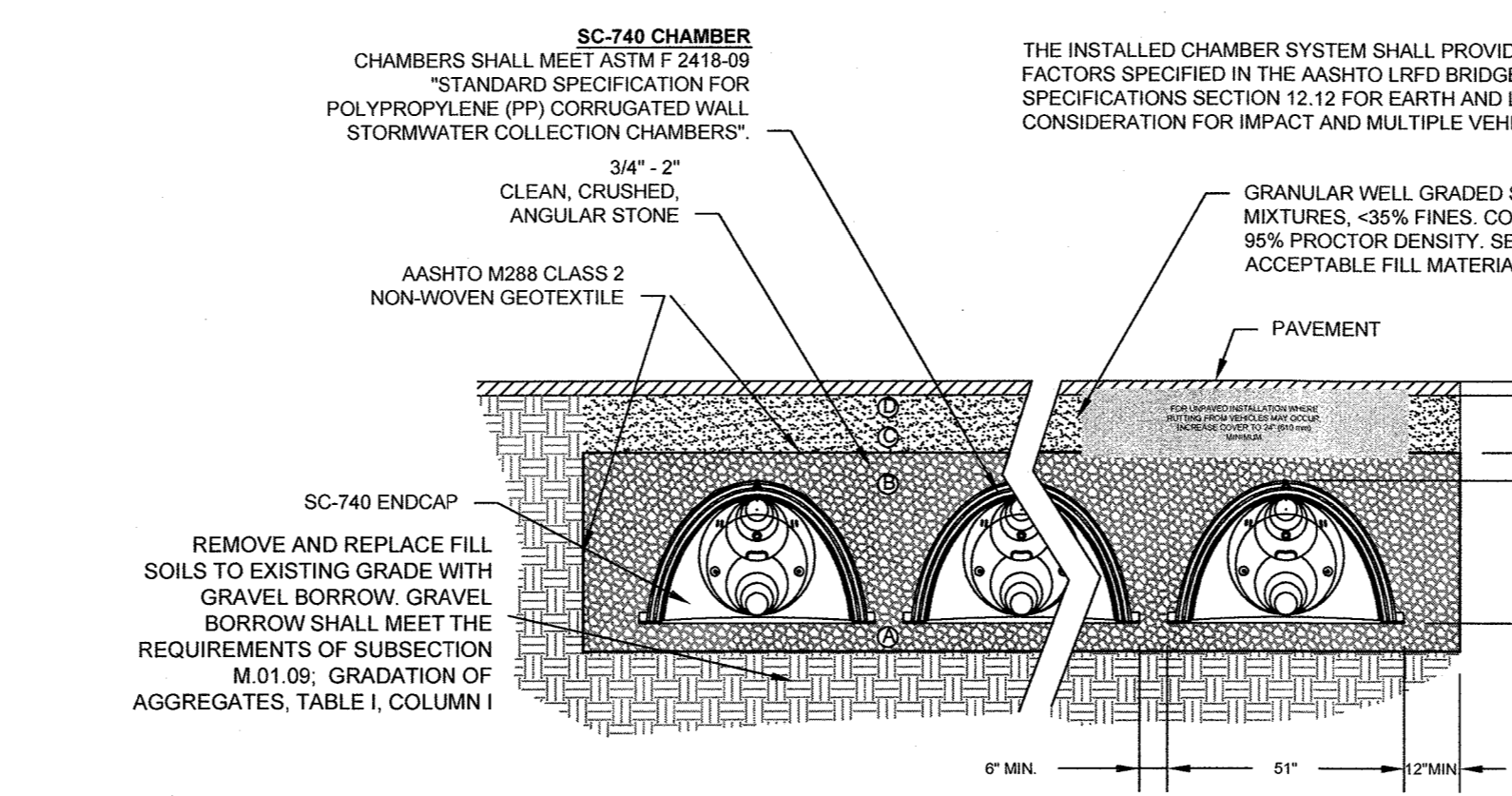
**REINFORCED CONCRETE RETAINING WALL**  
NOT TO SCALE

**REINFORCED CONCRETE RETAINING WALL-STONE FACE**  
NOT TO SCALE

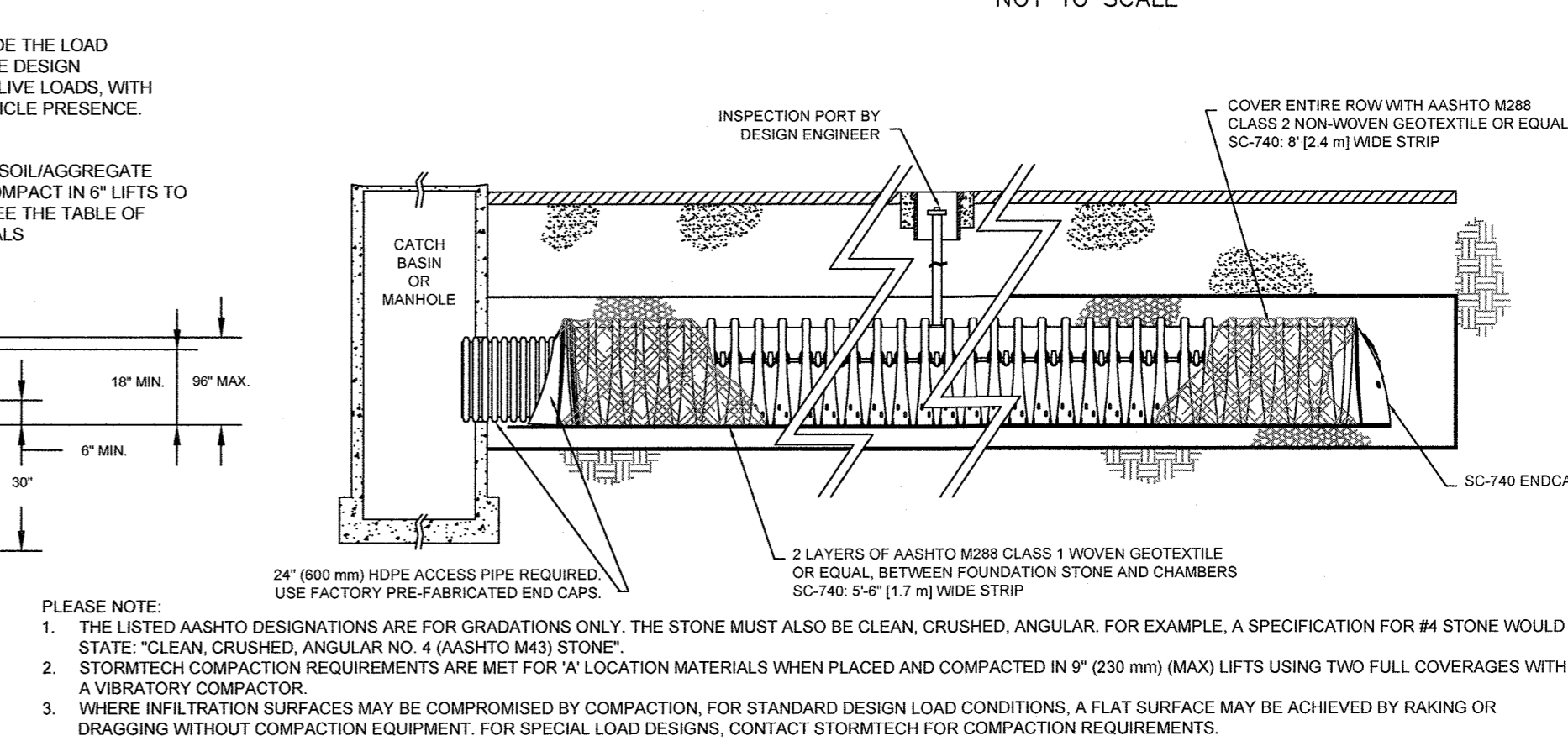


- INSTALLATION NOTES:**
- LIFT TRASH RACK ONTO CONCRETE STRUCTURE (TYPICALLY CAN BE DONE WITH 1-2 PERSONS) NOTE: TOP OF STRUCTURE MUST BE SOUND AND FLAT (WITHIN 1/8") AROUND TOP OF MOUNTING SURFACE. MOUNTING A TRASH RACK TO A STRUCTURE THAT IS NOT SOUND IS NOT RECOMMENDED.
  - POSITION (CENTER) TRASH RACK ON STRUCTURE AND MARK ALL MOUNTING HOLE LOCATIONS.
  - REMOVE TRASH RACK FROM CONCRETE STRUCTURE.
  - DRILL MOUNTING HOLES USING A 3/8" DIAMETER MASONRY DRILL BIT.
  - INSTALL 3/8" x 3" ANCHOR BOLTS (SUPPLIED).
  - LIFT TRASH RACK OVER ANCHOR BOLTS. ENSURE TRASH RACK IS COMPLETELY FLUSH AGAINST CONCRETE MOUNTING SURFACE AND TIGHTEN SECURE USING FLAT WASHERS AND NUTS (SUPPLIED).
  - ENSURE ALL ANCHOR BOLT NUTS ARE TIGHT AND SECURE. DO NOT OVERTIGHTEN!

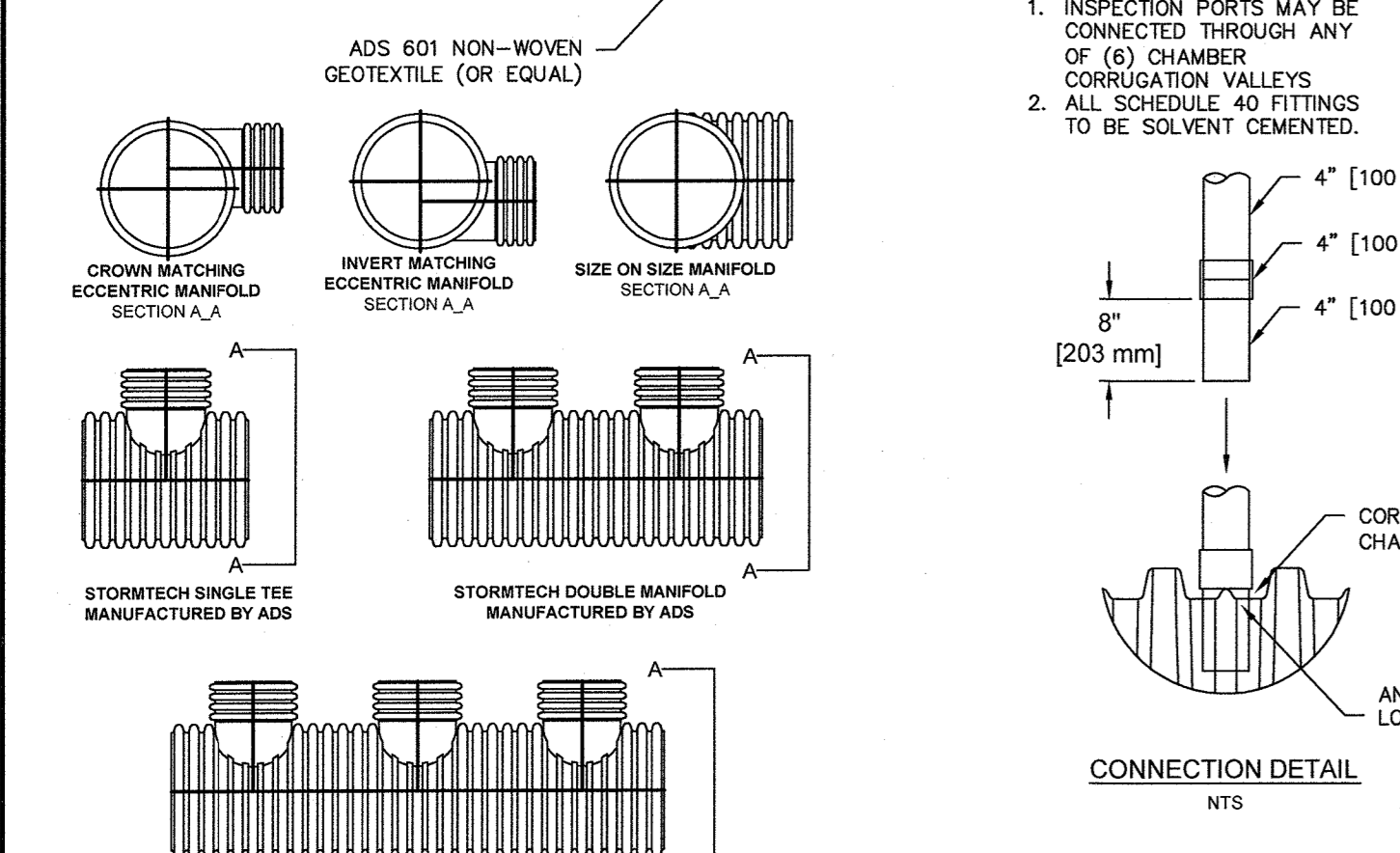
**STORMTRAX TRASH RACK**  
NOT TO SCALE



**STORMTECH SC-740 DRAINAGE PONDS**  
NOT TO SCALE



**STORMTECH DETAILS - PER MANUFACTURER SPECIFICATIONS**  
NOT TO SCALE

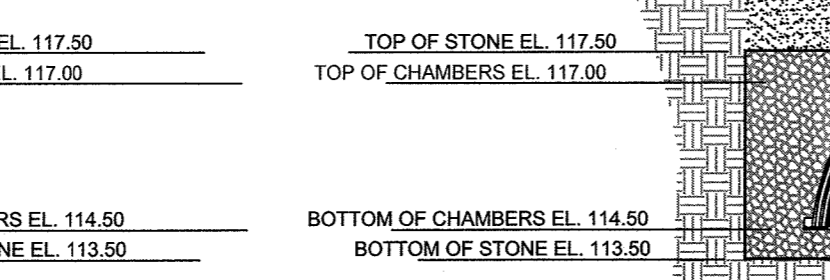


**HEADER PIPE SIZES**

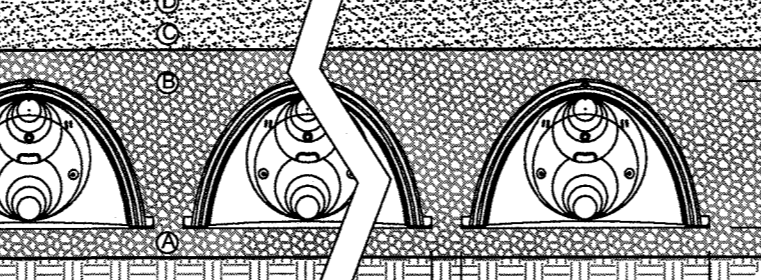
STUB SIZE	4"	6"	8"	10"	12"	14"	16"	18"	20"
4"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
6"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
8"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
10"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
12"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
14"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
16"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
18"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
20"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL

AVAIL - STANDARD HEADERS AVAILABLE  
ADS 1-800-821-6710

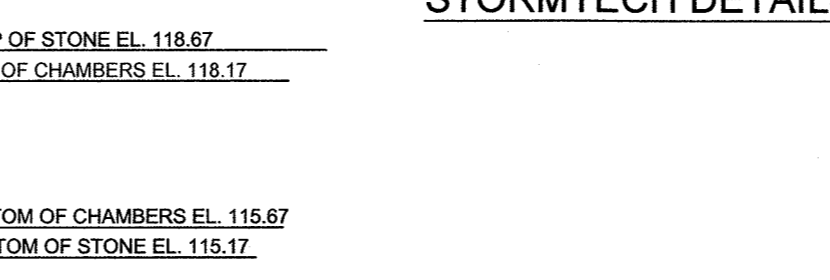
**BLDG REAR POND (8P)**



**BLDG REAR POND (4P)**

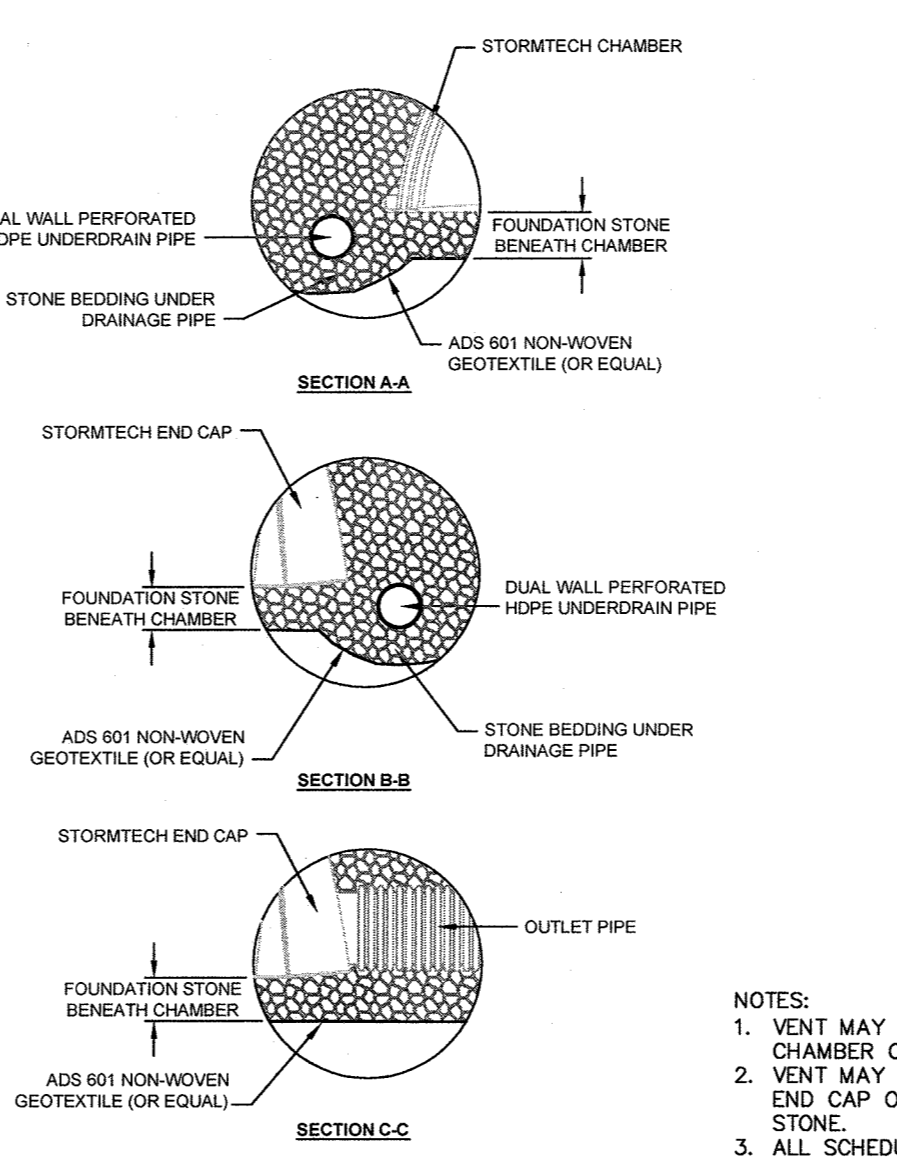


**PARKING LOT POND (6P)**



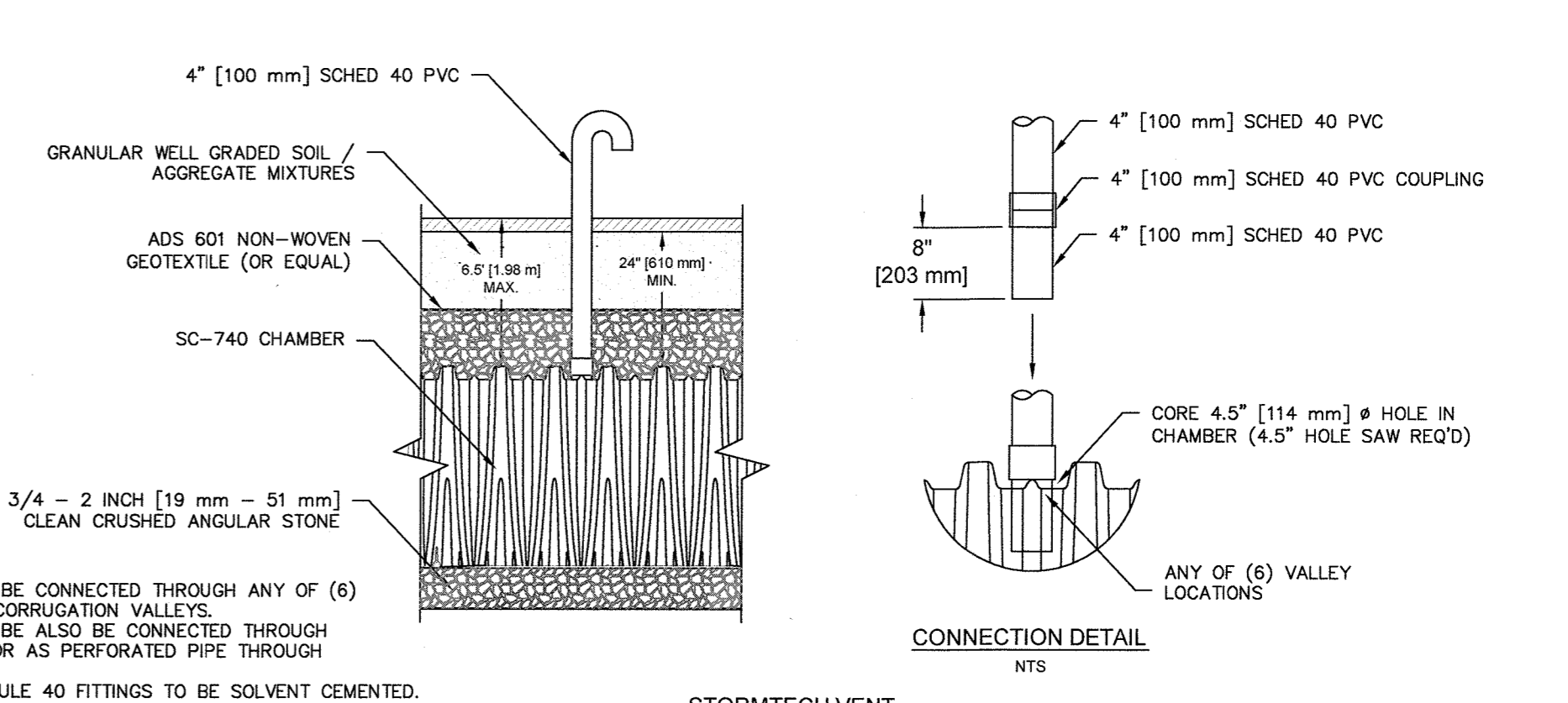
**SC-740 STORMWATER CHAMBER SPECIFICATIONS**

- CHAMBERS SHALL BE STORMTECH SC-740, MC-3500 OR APPROVED EQUAL.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL CONFIRM TO THE REQUIREMENTS OF ASTM F 2418, "STANDARD SPECIFICATIONS FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- CHAMBERS SHALL CONFIRM TO THE REQUIREMENTS OF ASTM F 2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.
  - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.
- THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.



MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION <sup>1</sup>	COMPACTION/DENSITY REQUIREMENT
ⓐ FILL MATERIAL FOR LAYER "D" STARTS FROM THE TOP OF THE "C" LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE "D" LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
ⓑ FILL MATERIAL FOR LAYER "C" STARTS FROM THE TOP OF THE EMBEDMENT STONE ("B" LAYER) TO 24" [610 mm] ABOVE THE TOP OF THE CHAMBER. MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES, COMPACT IN 6" LIFTS TO 95% PROCTOR DENSITY. SEE THE TABLE OF ACCEPTABLE FILL MATERIALS.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 24" [610 mm] OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" [152 mm] MAX LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY.
ⓒ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO THE "C" LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH [19 - 51 mm]	3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
ⓓ FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH [19 - 51 mm]	3, 35, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY <sup>2</sup> .

- PLEASE NOTE:**
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" [229 mm] (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.



**PETERSEN POOL**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS




**TYPICAL DETAILS**  
**C-6.3**  
SHEET 19 OF 19  
**1410.00**












Site & Area  
PureForm  
21" housing



Philips Gardco PureForm luminaires combine LED performance excellence and advanced LED thermal management technology with a distinct purity of style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. PureForm is defined by its high performance, sleek low profile design and rugged construction.


Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Color: \_\_\_\_\_  
Notes: \_\_\_\_\_

example: P21-APD-A1-1-3M-130LA-NW-120-NP-PCB

Prefix	Controls	Arm	Mounting	Optical System <sup>1</sup>	Voltage	Color Temp	Voltage	Finish	Options
P21-	PureForm 21" fixture								
P21-	Standard Luminaire	A1	1 Standard	Standard	350mA	CW	120	BRP	TL Tool-Less entry and driver removal hardware
	DM	9" Arm	2	2 Type 2	SSLA	5200K	120V	BLP	Terminal Block
	DIM	9" Arm	2	2 Type 2	SSLA	5200K	120V	BLP	Block-mount
	APD	3" Short	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint
	APD	3" Arm	3	3 Type 3	SSLA	5200K	200V	WV	White Paint

1. Available 120-277V only (INV, 120, 208, 240 & 277).  
2. Available 120V or 277V only. MRSD and APD-MHO require one motion sensor per pole, ordered separately. See page 2 for Accessories.  
3. Available 120V or 277V only. Variages 180LA and 200LA require substandard sensor and enclosure mounted to the arm of the luminaire (A1 arm only).  
4. Not available with A3 Arm Style.  
5. LLC2, LLC3, LLC4 wireless controls not configurable with PC/PCB/PCRS/PCRS7. Options. See pages 6-7 for more info.  
6. Arm Style: mount to a round pole with no adapter. If mounting to a square pole, specify Square Pole Adapter option: SPAS-1 for A1/A2 arms, or SPAS-2 for A3 arms.  
7. Available with A1 or A2 Arms only. Not available in P21-180LA or P21-480LA-MHO.  
8. Luminaire door frame and optic assembly provided standard without glass lens. Specify GLP position for clear glass lens.  
9. Available with 130LA or 200LA only.  
10. See page 8-9 for information on optical rotation prior to ordering.  
11. 200LA and 180LA not available in 347V or 480V.  
12. Available with A1 arm or with M4 mounting only. Provide specific inlet voltage.  
13. Not configurable with 480V. Voltage must be specified.  
14. Wires with 3-pin or 6-pin NEMA photo-cell/dimming device.  
15. If ordered with DM, APD, MR, MRSD, APD, MR, APD-MHO, dimmer will not be connected to NEMA receptacle.  
16. Wire with 3-pin or 6-pin NEMA photo-cell/dimming device and auxiliary connections are not connected (for future use only).  
17. Option reduces performance.

PureForm\_P21\_LED\_G3/16 page 1 of 9



### WST LED

Architectural Wall Sconce

12.24 Top Key or Mount over 2 1/2 inches over 1/2 inch from horizontal.

Specifications Luminaire	
Height: 8-1/2" (21.59 cm)	Width: 17" (43.18 cm)
Depth: 10-3/16" (25.7 cm)	Weight: 20 lbs (9.1 kg)

Optional Back Box (BB)	
Height: 4" (10.2 cm)	Width: 5-1/2" (14.0 cm)
Depth: 1-1/2" (3.8 cm)	Weight: 20 lbs (9.1 kg)

**Introduction**  
The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-polluted light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

#### Ordering Information

Series	Performance Package	Color Temperature	Input Voltage	Package	Mounting
WST LED	P1 1,500 Lumen package P2 3,000 Lumen package P3 5,000 Lumen package	27K 2700 K 30K 3000 K 50K 5000 K	120V 200V 277V	VF Visual comfort forward drive MV Visual comfort mid VW Visual comfort wide	MVOLT 120' 200' 277' 480' 500'

**EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD**

**Accessories**  
DL\* Clear Glass Lens  
SPAS-1 Square Pole Adapter  
SPAS-2 Square Pole Adapter  
DL\* Clear Glass Lens  
POLY\* Polycarbonate Lens  
BSI Set Detector Spike (S) - contact of 25 trichloroethylene plastic case detector spike (1/8" thread only).  
EWH Energy battery backup (7W)

**Options**  
TL Tool-Less entry and driver removal hardware  
TB Terminal Block  
PF Filing  
LF 1/2" x 1/2" x 1/2" Filing  
PCB\* PCB\* Receptacle with Photocell (includes PCB)  
PCRS\* Photocell Receptacle with 2-way dimming connections  
PCRS7\* Photocell Receptacle with 2-way dimming and 2-auxiliary connections  
EHHS External Housecode Shield  
PTF2 Pole Top Filter for 2 1/4" x 3 1/8" tonon  
PTF4 Pole Top Filter for 3 1/2" x 4 1/8" tonon  
SPAS-1 Square Pole Adapter for use with A1 or A2 Arms  
SPAS-2 Square Pole Adapter for use with A3 Arms  
DL\* Clear Glass Lens  
POLY\* Polycarbonate Lens  
BSI Set Detector Spike (S) - contact of 25 trichloroethylene plastic case detector spike (1/8" thread only).  
EWH Energy battery backup (7W)

**Notes**  
1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specific 120, 200, 277 options only when ordering with custom type photocell (PCL, using SP, DP, or dual switching (DS)).  
2. Also available as a recessed accessory. See accessories information.  
3. Top contact entry standard.  
4. Not available with P1, P2, P3, P4, P5, P6, P7, V1, V2, or V3.  
5. Not available with MVOLT option. Custom photocell (PCL) can be ordered with a dedicated voltage option. Single full (SP) requires 120, 277 or 347 voltage option. Double full (DP) requires 208, 240 or 480 voltage option.  
6. Not available with EWH, E7WC, E7WH, E2DWC, E2DWH, or E2DTH. Used with timer system. Not available with 347/480V. Not available with P1, P2, P3, P4, P5, P6, P7, V1, V2, or V3.  
7. Not available with P4/P5.  
8. Battery pack rated for 207 to 40°C.  
9. Comes with P4/P5.  
10. Voltage period is 3 years.  
11. Not available with BBV.  
12. Must order with fixture; not an accessory.

BRAINTREE PLANNING BOARD

APPROVED DATE: \_\_\_\_\_



**VINCENZO A. DIORIO, INC.**  
CONSULTING ENGINEERS  
19 Acorn Road, Suite 100  
Braintree, Massachusetts 01905  
Tel: (781) 525-7754 email: info@vadiorio.com  
www.vadiorio.com

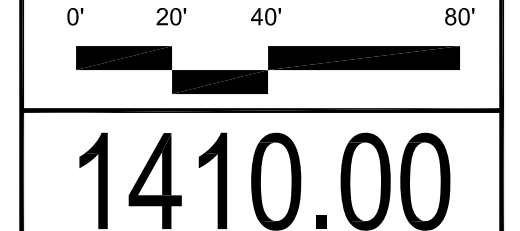
NO.	DATE	REVISIONS

DATE: JANUARY 18, 2017  
DRAWN: CDO  
SCALE: NOT TO SCALE

**PETERSON POOL**  
INDOOR SPORT CENTER - PERMITTING DOCUMENTS  
A PORTION OF AM 1042, PARCELS 01 & 02  
128 TOWN STREET  
BRAINTREE, MASSACHUSETTS

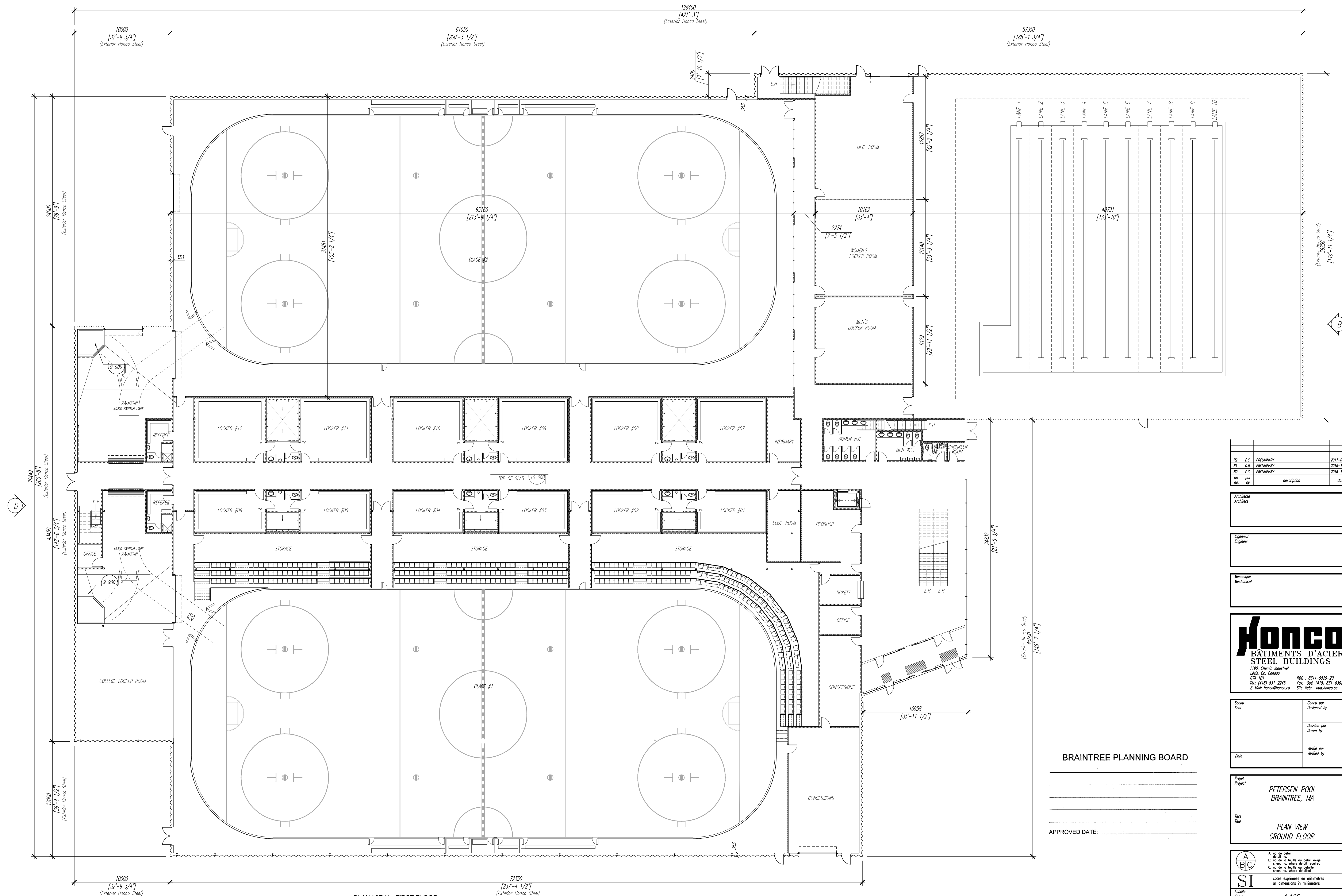
SITE LIGHTING SPEC. SHEETS

**PH.02**



1410.00





PLAN VIEW - FIRST FLOOR  
SCALE: 1:125

no.	par. no.	description	date
R2	E.C.	PRELIMINARY	2017-01-31
R1	D.R.	PRELIMINARY	2016-12-08
R0	E.C.	PRELIMINARY	2016-11-04

Architecte  
Architect

Ingénieur  
Engineer

Mécanique  
Mechanical

**Honco**  
BÂTIMENTS D'ACIER  
STEEL BUILDINGS  
1190, Chemin Industriel  
Lévis, Qc, Canada  
C2R 1G1  
Tel.: (418) 831-2245 Fax: (418) 831-5302  
E-Mail: honco@honco.ca Site: www.honco.ca

Scale Échelle	Conçu par Designed by
Date	Dessiné par Drawn by
	Vérifié par Verified by

BRAINTREE PLANNING BOARD

APPROVED DATE: \_\_\_\_\_

Projet  
Project  
**PETERSEN POOL  
BRAINTREE, MA**

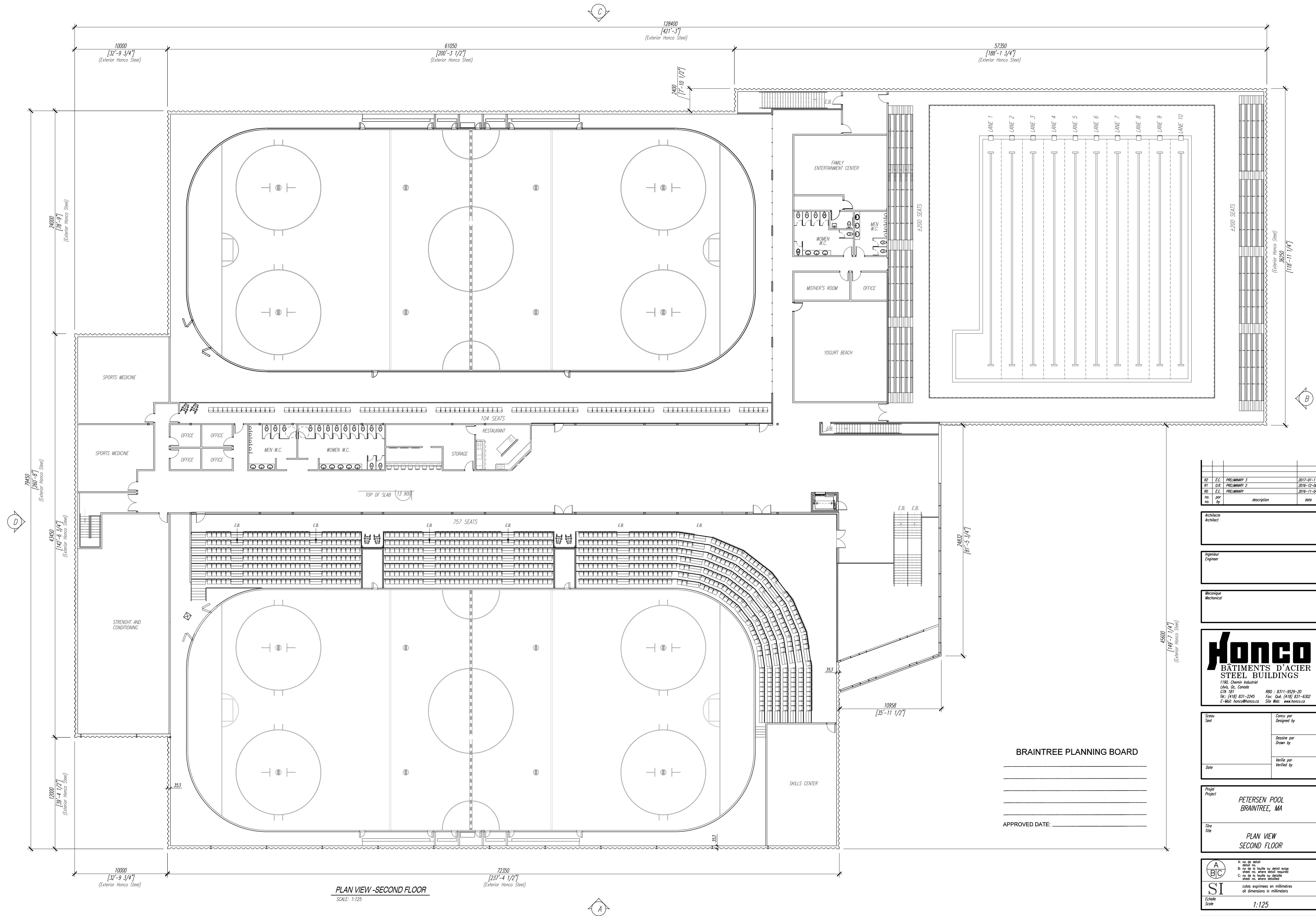
Titre  
Title  
**PLAN VIEW  
GROUND FLOOR**

A: no. de détail  
B: no. de feuille ou détail exigé  
C: no. de feuille ou détail  
sheet no. where detailed

SI  
coles exprimées en millimètres  
ou dimensions en millimètres

Echelle  
Scale  
**1:125**





PLAN VIEW - SECOND FLOOR  
SCALE: 1:125

no.	par no.	description	date
R2	E.C.	PRELIMINARY 1	2017-01-11
R1	D.R.	PRELIMINARY 2	2016-12-08
R0	E.C.	PRELIMINARY	2016-11-04

Architecte  
Architect

Ingenieur  
Engineer

Mécanisme  
Mechanical

**Honco**  
BÂTIMENTS D'ACIER  
STEEL BUILDINGS  
1190, Chemin Industriel  
Léves, Qc, Canada  
G7A 1B1  
TEL: (418) 831-2245  
E-Mail: honco@honco.ca  
R00 : 8311-9529-20  
Fax: Qué. (418) 831-6302  
Site Web: www.honco.ca

Scalé Scale	Conçu par Designed by
Date	Dessiné par Drawn by
	Vérifié par Verified by

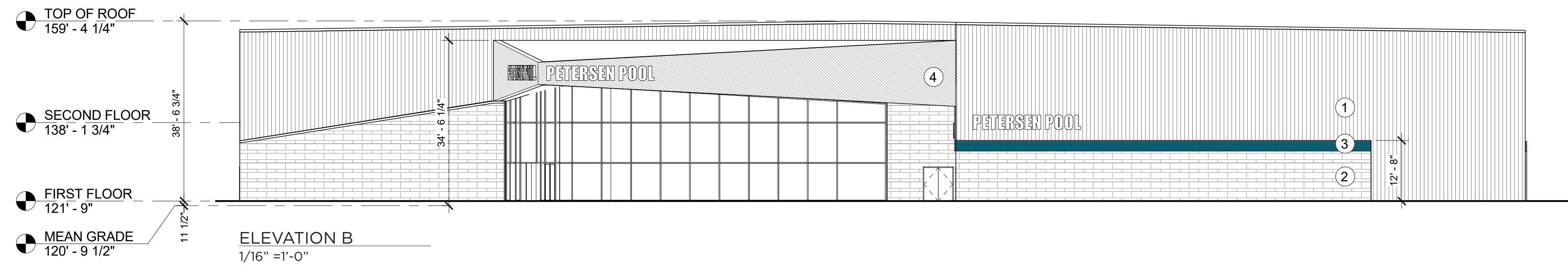
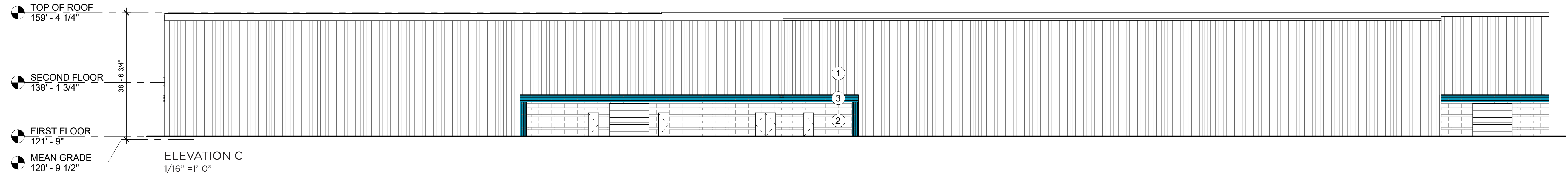
Projet  
Project  
**PETERSEN POOL  
BRAINTREE, MA**  
Titre  
Title  
**PLAN VIEW  
SECOND FLOOR**

A: no de détail  
B: no de la feuille ou détail exigé  
C: no de la feuille ou détail  
coles exprimées en millimètres  
all dimensions in millimeters  
Echelle  
Scale  
**1:125**

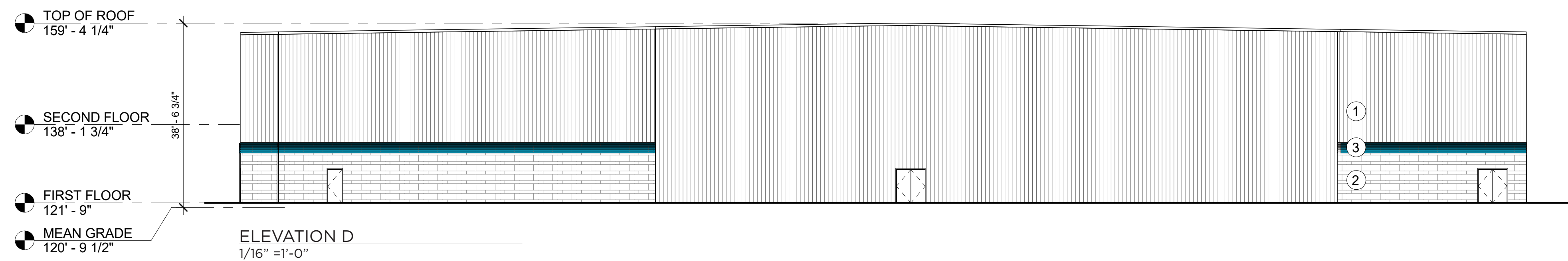
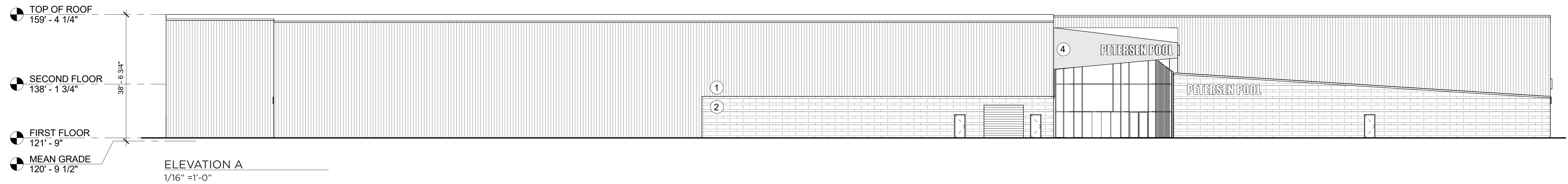
BRAINTREE PLANNING BOARD

APPROVED DATE: \_\_\_\_\_





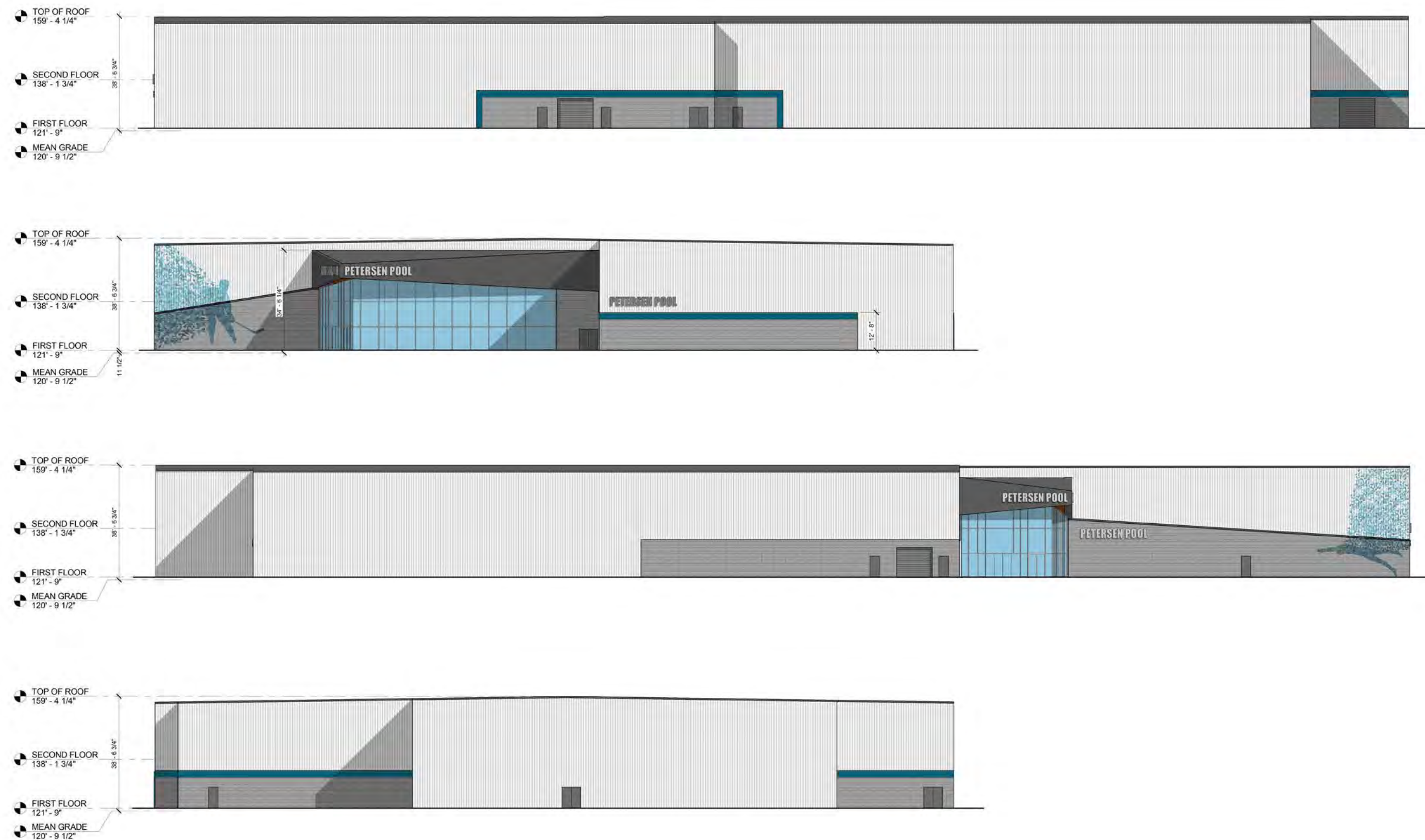
EXTERIOR MATERIALS	
①	CORRUGATED GALVALUME PANELS
②	HIGH DENSITY FIBER CEMENT PANELS - CHARCOAL COLOR
③	PERFORATED METAL PANELS - BLUE COLOR
④	CORRUGATED PAINTED METAL PANELS- CHARCOAL COLOR



BRAINTREE PLANNING BOARD

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 APPROVED DATE: \_\_\_\_\_

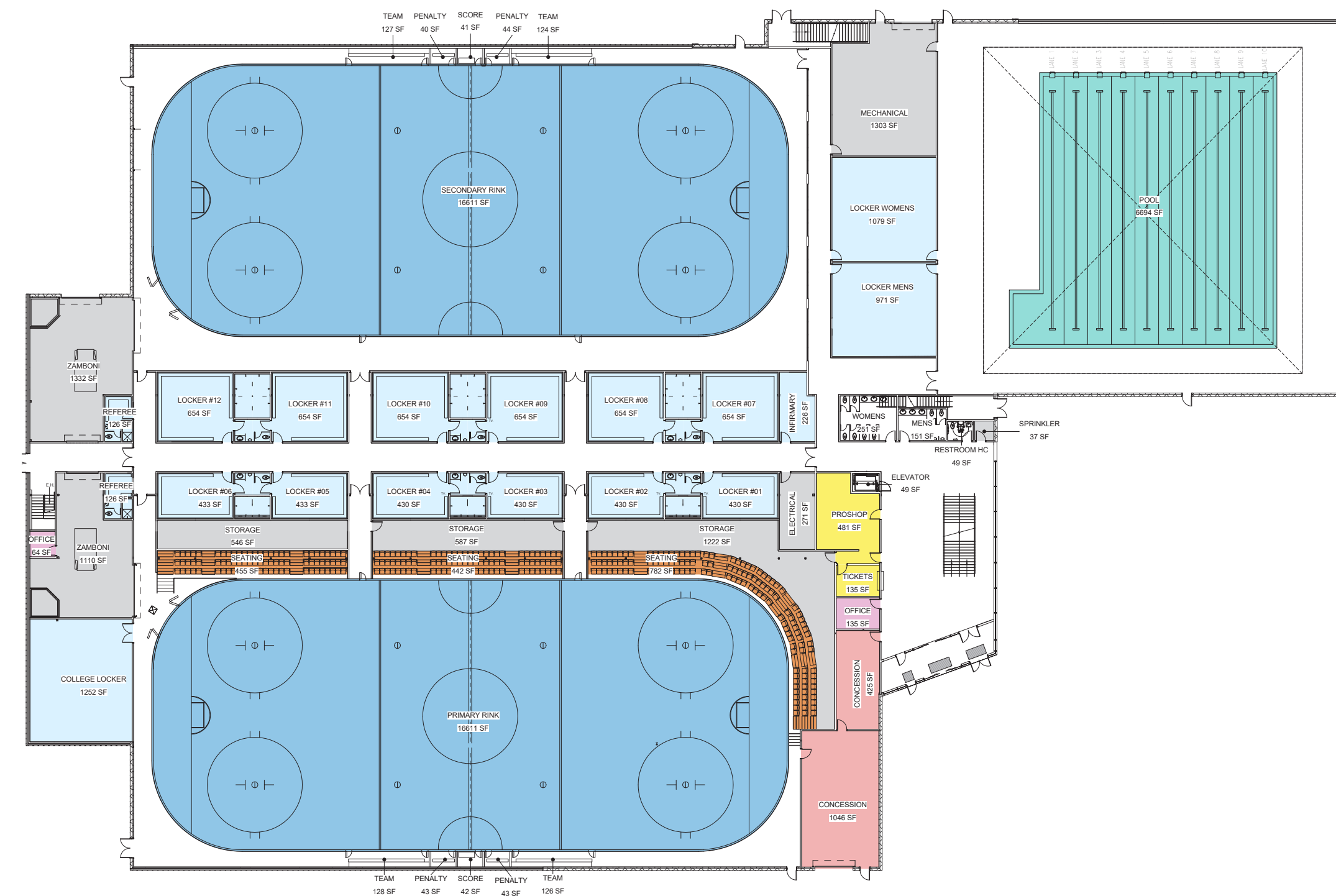




TROIKA

ELEVATIONS

PETERSEN POOL  
January 13, 2017

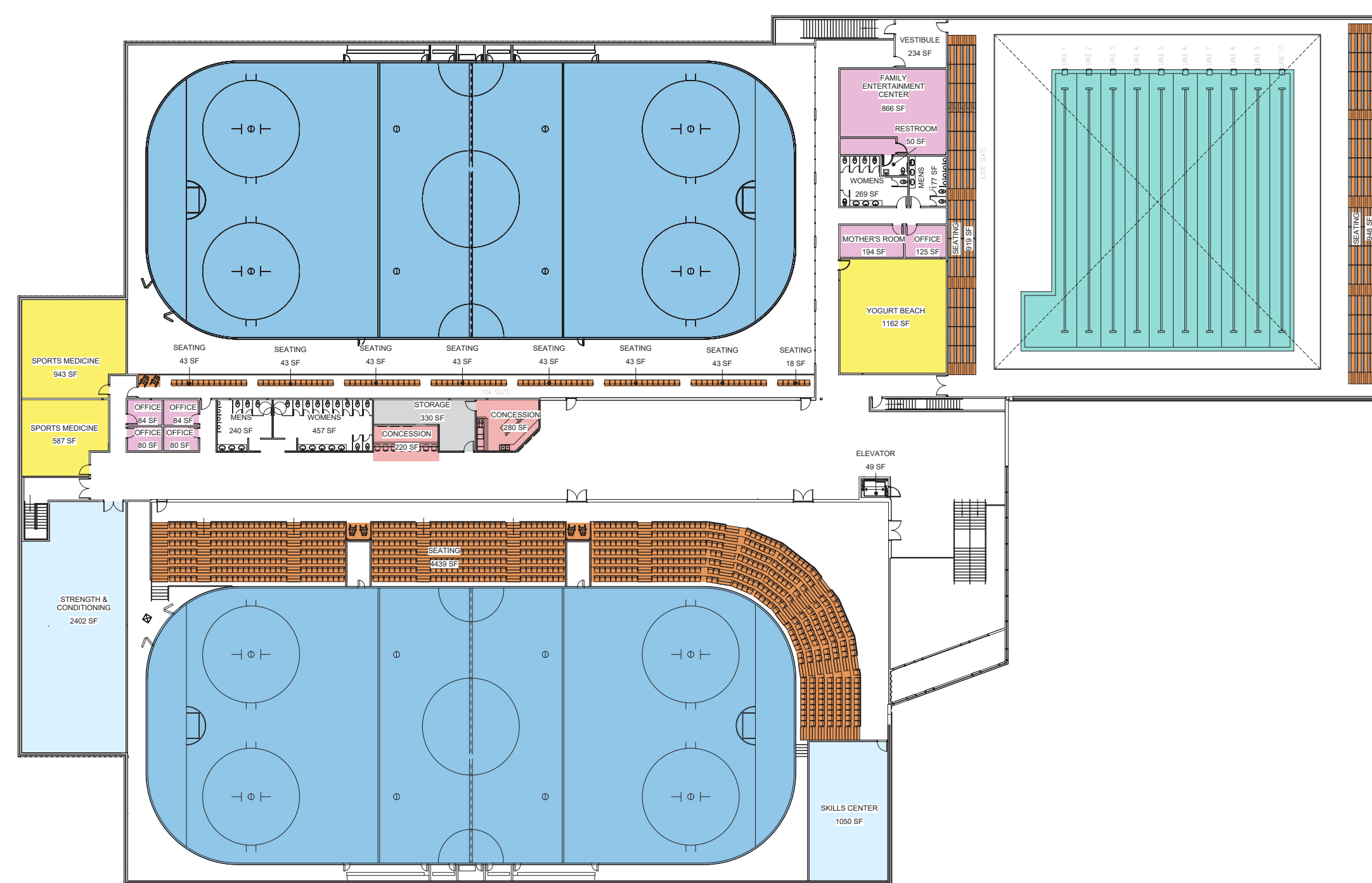


- RINKS
- POOL
- TENANT
- CONCESSIONS
- LOCKER ROOMS
- OFFICE/LOUNGE
- SEATING
- MECH./STORAGE

TROIKA

LEVEL 1 AREA PLAN

PETERSEN POOL  
January 13, 2017



- RINKS
- POOL
- TENANT
- CONCESSIONS
- LOCKER ROOMS
- OFFICE/LOUNGE
- SEATING
- MECH./STORAGE

TROIKA

LEVEL 2 AREA PLAN

PETERSEN POOL  
January 13, 2017



BRAINTREE PLANNING BOARD

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APPROVED DATE: \_\_\_\_\_