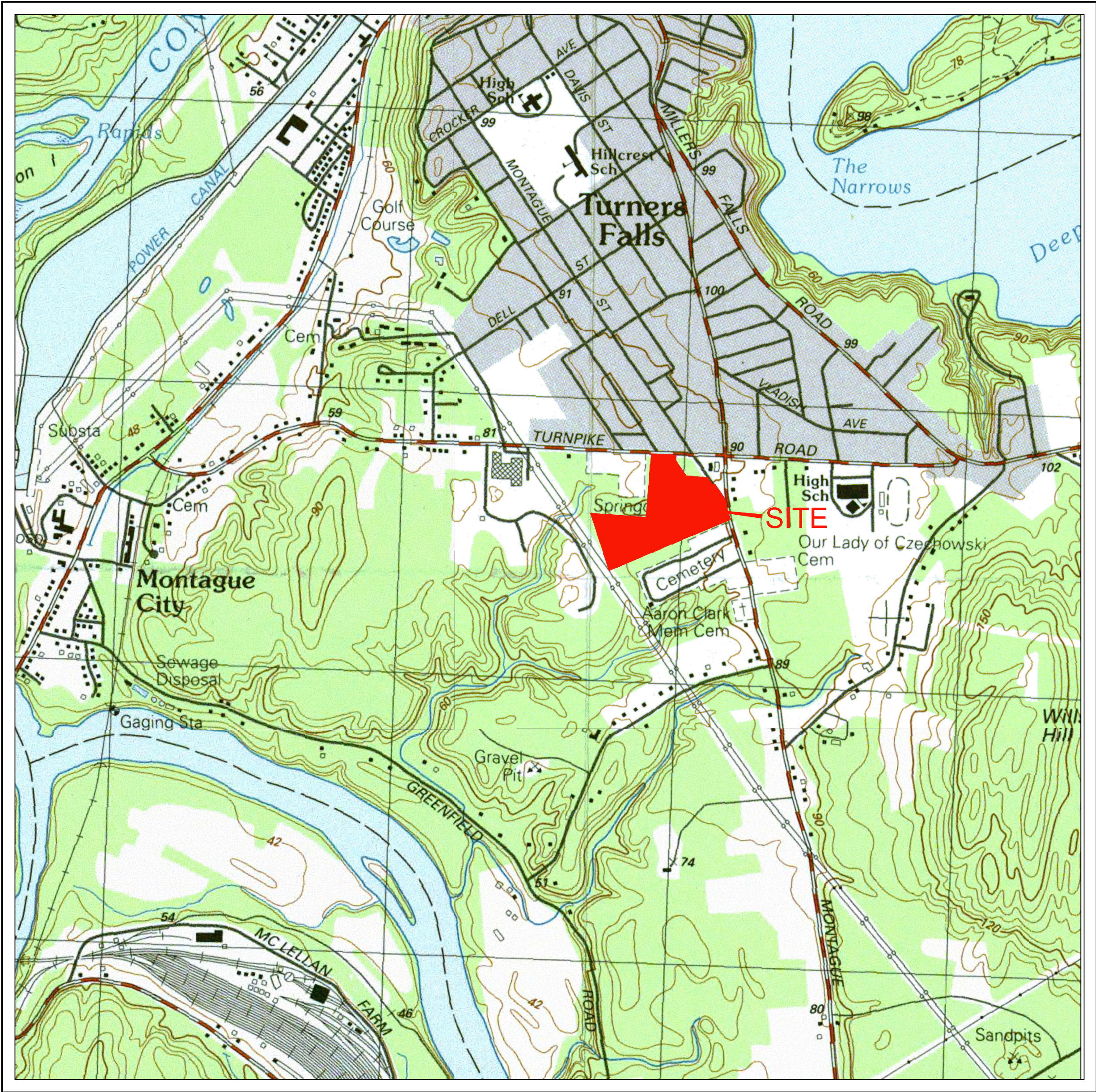




SITE RENDERING
NOT TO SCALE



LOCUS PLAN
SCALE: 1"=1000'



TOWN OF MONTAGUE
NEW DPW FACILITY

128 TURNERS FALLS WAY
TURNERS FALLS, MA 01376

SITE PLAN REVIEW & SPECIAL PERMT

04/16/2019

PROJECT # 19029

INDEX TO DRAWINGS:

Sheet Number	Sheet Name
C-001	COVER SHEET
C-101	EXISTING CONDITIONS PLAN
C-111	SITE PREPARATION PLAN
C-121	LAYOUT, MATERIALS, & PLANTING PLAN
C-131	GRADING & UTILITIES PLAN
C-501	DETAILS I
C-502	DETAILS II
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C-504	DETAILS IV
A-101	FLOOR PLAN
A-301	EXTERIOR ELEVATIONS SHEET I
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A-401	SALT STORAGE STRUCTURE
A-402	MATERIAL STORAGE STRUCTURE
SL1	LIGHTING PLAN, SCHEDULES, AND SPECIFICATIONS

SMMA



NEW DPW FACILITY

OF MONTAGUE
VENUE A
RS FALLS, MA 01376

HELENE • KARL

Fields Drive, Groton, Massachusetts 01450

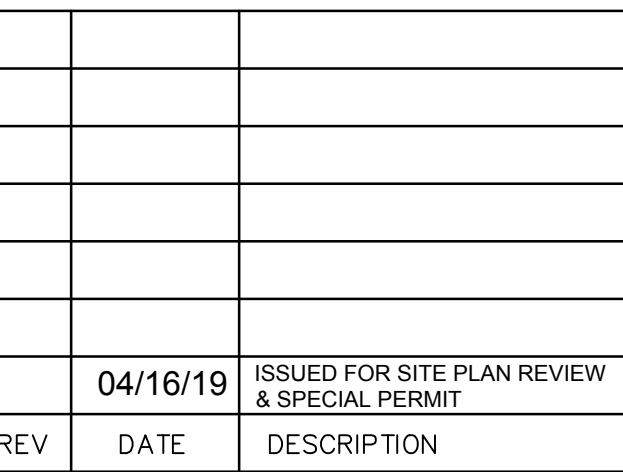
ENGINEER:
J. MAINI & McKEE ASSOCIATES
MASSACHUSETTS AVENUE
DORCHESTER, MA 02138

CIVIL ENGINEER:
J. MAINI & McKEE ASSOCIATES
100 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
ENGINEERING CORP.
ST STREET, UNIT C
RY, MA 01527

ICAL ENGINEER:
J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC
LIBERTY STREET
AND, MA 02370

.....



DATE	4-16-2019
SCALE	1"=30'
DRAWN BY	CJR
CHECKED BY	PSG
PROJECT NO.	19001

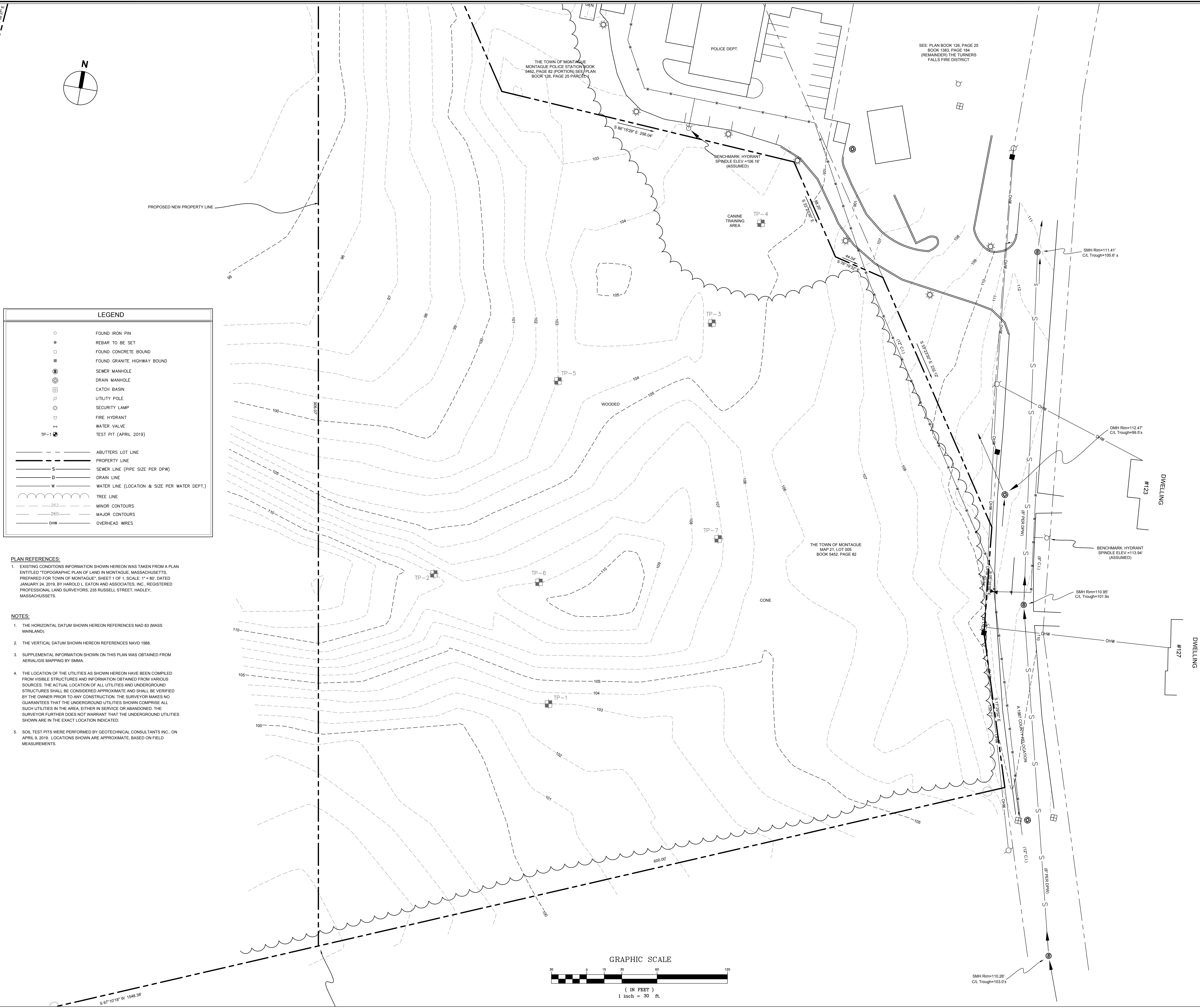
BUILDING:

SHEET TITLE:

EXISTING
CONDITIONS
PLAN

DRAWING NO. _____

C-101





TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

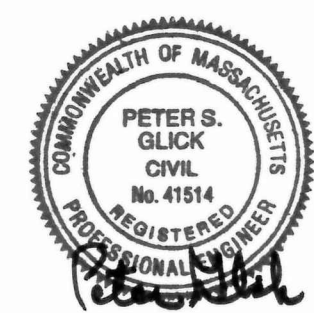
CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

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04/16/19	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT	
REV	DATE	DESCRIPTION

DATE: 4-06-2019

SCALE: 1"=30'

DRAWN BY: C.JR

CHECKED BY: PSG

PROJECT NO.: 19001

BUILDING:

SHEET TITLE:

**SITE PREPARATION
PLAN**

DRAWING NO.

C-111

EROSION CONTROL NOTES - GENERAL:

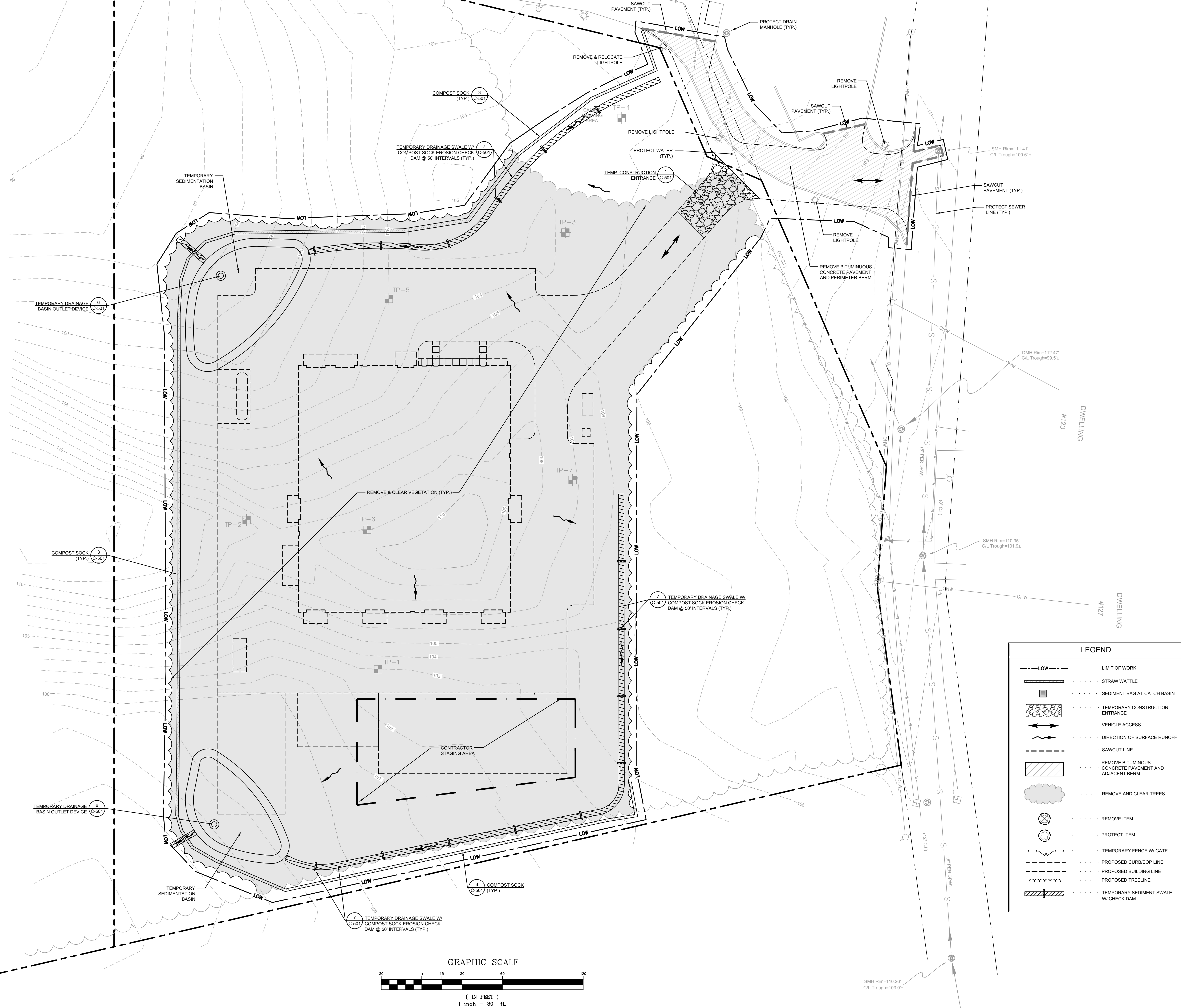
- CONFORM TO CONDITIONS LISTED IN THE SITE PLAN REVIEW APPROVAL ISSUED FOR THIS PROJECT. A COPY OF THE CONDITIONS IS TO BE KEPT ON-SITE.
- CONFORM TO CONDITIONS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE NPDES GENERAL PERMIT. A COPY OF THE SWPPP IS TO BE KEPT ON-SITE.
- INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY SITEWORK OR EARTHWORK OPERATIONS, OR AS REQUIRED BY THE ORDER OF CONDITIONS (WHICHEVER IS GREATER) AND MAINTAIN THROUGHOUT CONSTRUCTION. MEASURES ARE TO REMAIN IN PLACE UNTIL SITEWORK IS COMPLETE AND GROUND COVER IS ESTABLISHED, AS DETERMINED BY THE ARCHITECT.
- SUBMIT A NPDES APPLICATION TO THE EPA AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF ANY SITEWORK OR EARTHWORK OPERATIONS. SUBMIT PROOF OF APPLICATION FOR A NPDES GENERAL PERMIT TO THE ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF ANY SITEWORK.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCES PER DETAIL AT LOCATIONS INDICATED. RELOCATE AND MAINTAIN AS NECESSARY DURING CONSTRUCTION.
- SURROUND SOIL STOCKPILES ON THEIR PERIMETERS WITH STAKED HAYBALES AND SILT FENCES TO CONTROL EROSION. MAINTAIN THROUGHOUT CONSTRUCTION.
- STABILIZE SOIL STOCKPILES AND EXPOSED SOIL AREAS WHERE CONSTRUCTION ACTIVITIES WILL CEASE FOR 14 DAYS OR MORE, IN ACCORDANCE WITH THE NPDES GENERAL PERMIT.
- PERFORM EARTHWORK ACTIVITY ON THE SITE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO TEMPORARY DRAINAGE SWALES AND TEMPORARY SEDIMENTATION BASINS. TEMPORARY DRAINAGE FEATURES ARE TO BE ADJUSTED AND RELOCATED AS NECESSARY THROUGHOUT CONSTRUCTION.
- CONSTRUCT TEMPORARY SEDIMENTATION BASINS TO CONTAIN A VOLUME OF RUNOFF EQUAL TO THE RESULTANT VOLUME OF RUNOFF FROM A 2-YEAR, 24-HOUR STORM EVENT FOR THE AREA THAT IS TRIBUTARY TO THE BASIN.
- CONSTRUCT THE DRAINAGE SYSTEM, INCLUDING THE DETENTION BASIN AND FOREBAYS, DURING THE INITIAL PHASE OF THE PROJECT (TO THE EXTENT PRACTICAL) SO IT IS FUNCTIONAL DURING CONSTRUCTION. KEEP STRUCTURES FREE OF SILT AND DEBRIS TO ENSURE THEIR PROPER OPERATION.
- INSTALL SILT SACKS AT EXISTING AND PROPOSED CATCH BASIN GRATES AND USE SUPPLEMENTAL STAKED HAYBALES AT CATCH BASINS IN EXPOSED SOIL AREAS, AND AS INDICATED ON THE PLANS. PROTECT CULVERT AND PIPE INLETS AND OUTFALLS WITH HAYBALE FILTERS. MAINTAIN THESE MEASURES UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- DEWATERING REQUIRED DURING CONSTRUCTION IS TO BE DISCHARGED INTO A TEMPORARY SEDIMENTATION BASIN. DO NOT DISCHARGE DIRECTLY INTO THE PIPED STORM DRAIN SYSTEM OR RESOURCE AREA.
- KEEP ON SITE AT ALL TIMES: 50LF RESERVE OF COMPOST SOCK (MINIMUM), 50 LF RESERVE OF SILT FENCE WITH STAKES (MINIMUM), ADDITIONAL EROSION CONTROL BLANKETS, STONE RIP-RAP, AND OTHER EROSION CONTROL DEVICES USED DURING CONSTRUCTION. THESE ARE TO BE INSTALLED AS NEEDED AND AT THE DIRECTION OF THE ARCHITECT OR THE OWNER, TO MITIGATE AN EMERGENCY CONDITION. PROVIDE ADDITIONAL QUANTITIES IF REQUIRED BY THE APPROVAL CONDITIONS.

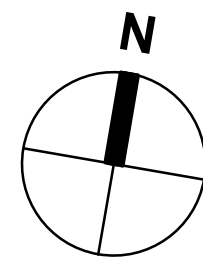
EROSION CONTROL NOTES - MAINTENANCE:

- DURING THE PERIOD OF CONSTRUCTION AND UNTIL LONG TERM VEGETATION IS ESTABLISHED:
- INSPECT EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING SEDIMENTATION BASINS AND SWALES, AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A 0.25-INCH OR GREATER STORM EVENT.
 - REPLACE OR REPAIR EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO 1/2 THE DESIGN HEIGHT OR CAPACITY OF THE MEASURE. REFER TO THE SWPPP FOR ADDITIONAL INFORMATION.
 - MAINTAIN THE ENTRANCES AND EXITS FROM THE SITE IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT INTO THE PRIVATE OR PUBLIC WAY. SEDIMENT THAT IS TRACKED, SPILLED, OR WASHED INTO THESE WAYS, IS TO BE REMOVED BY THE CONTRACTOR IMMEDIATELY.
 - CATCH BASINS, OUTLET CONTROL STRUCTURES, AND WATER QUALITY UNITS ARE TO BE INSPECTED AT LEAST EIGHT TIMES PER YEAR, DURING CONSTRUCTION, AND CLEANED OF SEDIMENT IF OVER SIX INCHES DEEP. ADDITIONALLY, CLEAN THESE STRUCTURES AT THE END OF CONSTRUCTION.

UTILITIES AND DEMOLITION NOTES:

- PRIOR TO CONSTRUCTION, VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON THE DRAWINGS. REPORT DISCREPANCIES TO THE ARCHITECT.
- CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. NOTIFY THE ARCHITECT OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.
- PROTECT NEW AND EXISTING UTILITIES DURING CONSTRUCTION. ONLY REMOVE EXISTING UTILITIES THAT ARE SPECIFICALLY DESIGNATED ON THIS PLAN TO BE REMOVED.
- MAINTAIN FUNCTIONING UTILITIES AND NOTIFY THE OWNER AND ARCHITECT A MINIMUM OF 5 DAYS PRIOR TO ANY UTILITY SERVICE INTERRUPTION. OBTAIN APPROVAL TO PROCEED PRIOR TO INTERRUPTION.
- IF UNDOCUMENTED UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, CONTACT THE ARCHITECT FOR DIRECTION, PRIOR TO ALTERING THE UTILITY IN ANY WAY.
- PROTECT EXISTING SITE FEATURES DURING CONSTRUCTION, EXCEPT FOR THOSE ITEMS OR AREAS SPECIFICALLY DESIGNATED ON THIS PLAN TO BE REMOVED.
- PROTECT EXISTING TREES AND VEGETATION DURING CONSTRUCTION, EXCEPT FOR THOSE ITEMS OR AREAS SPECIFICALLY DESIGNATED ON THIS PLAN TO BE REMOVED. INSTALL TREE PROTECTION PER DETAIL AT LOCATIONS INDICATED. REPLACE OR PROVIDE COMPENSATION FOR TREES DAMAGED OR DECEASED THAT WERE DESIGNATED TO BE PROTECTED, AS A RESULT OF CONSTRUCTION ACTIVITIES.
- REMOVE DEMOLISHED MATERIALS NOT DESIGNATED FOR SALVAGE OR STOCKPILE, OFF THE SITE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- ADJUST TEMPORARY FENCING AS REQUIRED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.

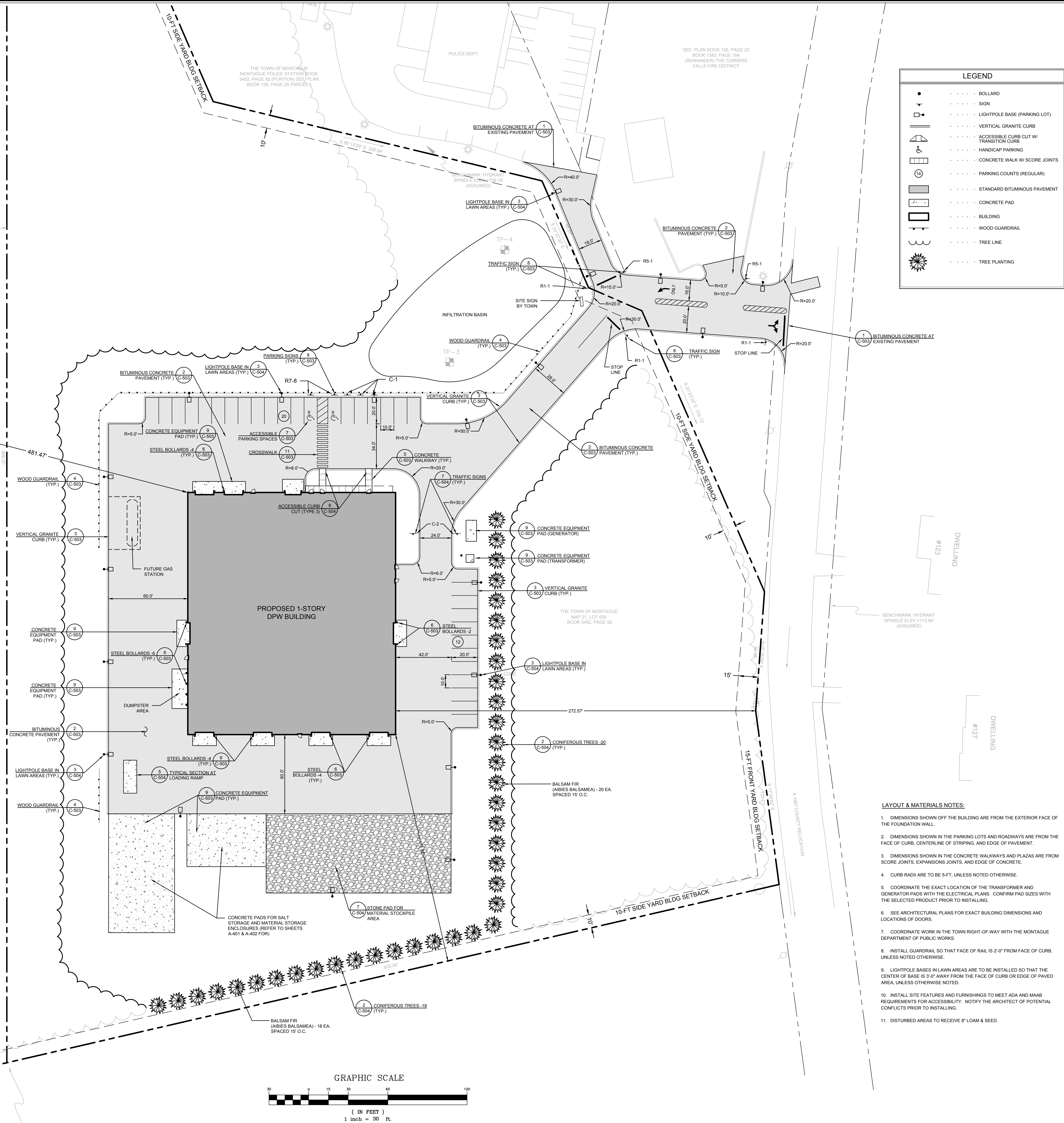




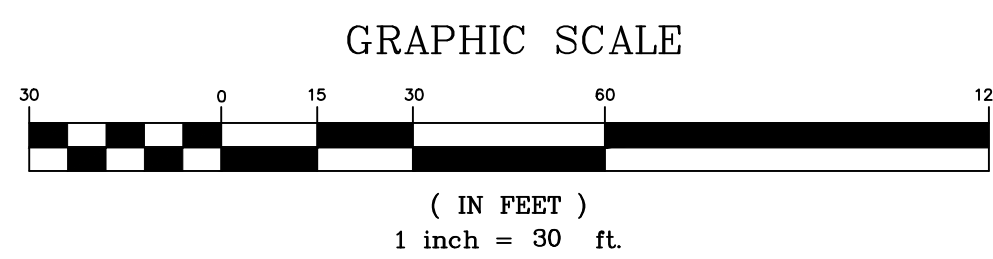
PARKING AND TRAFFIC SIGNS						
SIGN	SIGN NUMBER	SIZE OF SIGN		DESCRIPTION	MOUNT HEIGHT (TO BOTTOM)	MOUNT TYPE
		WIDTH	HEIGHT			
	R7-8	12"	18"	BLUE & GREEN ON WHITE	5'-0"	SQUARE POST
	R7-8A	18"	9"	GREEN ON WHITE	5'-0"	SQUARE POST
	C-1	12"	18"	BLACK ON WHITE	5'-6"	SQUARE POST
	C-2	18"	18"	BLACK ON WHITE	5'-6"	SQUARE POST
	R1-1	30"	30"	WHITE ON RED	7'-0"	CHANNEL
	RS-1	30"	30"	WHITE ON RED	7'-0"	CHANNEL

ZONING - NEIGHBORHOOD BUSINESS (NB)		
	REQUIRED	PROPOSED
MIN LOT AREA, SQ. FT.	10,000 SF	1,043,898 SF
MIN FRONTAGE, FT.	75 FT	223 FT
MIN FRONT YARD DEPTH, FT.	15 FT	272 FT
MIN SIDE YARD DEPTH, FT.	10 FT	175 FT
MIN REAR YARD DEPTH, FT.	30 FT	481 FT
MAX HEIGHT, FT.	28 FT	30.5 FT

PARKING SUMMARY	
REGULAR PARKING SPACES (STAFF, VISITORS, & TRUCK SPACES)	28
HANDICAP ACCESSIBLE PARKING SPACES	2
TRUCK PARKING - INSIDE	26
TOTAL	56



- LAYOUT & MATERIALS NOTES:**
- DIMENSIONS SHOWN OFF THE BUILDING ARE FROM THE EXTERIOR FACE OF THE FOUNDATION WALL.
 - DIMENSIONS SHOWN IN THE PARKING LOTS AND ROADWAYS ARE FROM THE FACE OF CURB, CENTERLINE OF STRIPING, AND EDGE OF PAVEMENT.
 - DIMENSIONS SHOWN IN THE CONCRETE WALKWAYS AND PLAZAS ARE FROM SCORE JOINTS, EXPANSION JOINTS, AND EDGE OF CONCRETE.
 - CURB RADII ARE TO BE 5'-FT, UNLESS NOTED OTHERWISE.
 - COORDINATE THE EXACT LOCATION OF THE TRANSFORMER AND GENERATOR PADS WITH THE ELECTRICAL PLANS. CONFIRM PAD SIZES WITH THE SELECTED PRODUCT PRIOR TO INSTALLING.
 - SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF DOORS.
 - COORDINATE WORK IN THE TOWN RIGHT-OF-WAY WITH THE MONTAGUE DEPARTMENT OF PUBLIC WORKS.
 - INSTALL GUARDRAIL SO THAT FACE OF RAIL IS 2'-0" FROM FACE OF CURB, UNLESS NOTED OTHERWISE.
 - LIGHTPOLE BASES IN LAWN AREAS ARE TO BE INSTALLED SO THAT THE CENTER OF BASE IS 3'-0" AWAY FROM THE FACE OF CURB OR EDGE OF PAVED AREA, UNLESS OTHERWISE NOTED.
 - INSTALL SITE FEATURES AND FURNISHINGS TO MEET ADA AND MAAB REQUIREMENTS FOR ACCESSIBILITY. NOTIFY THE ARCHITECT OF POTENTIAL CONFLICTS PRIOR TO INSTALLING.
 - DISTURBED AREAS TO RECEIVE 8" LOAM & SEED.



LEGEND	
	BOLLARD
	SIGN
	LIGHTPOLE BASE (PARKING LOT)
	VERTICAL GRANITE CURB
	ACCESSIBLE CURB CUT W/ TRANSITION CURB
	HANDICAP PARKING
	CONCRETE WALK W/ SCORE JOINTS
	PARKING COUNTS (REGULAR)
	STANDARD BITUMINOUS PAVEMENT
	CONCRETE PAD
	BUILDING
	WOOD GUARDRAIL
	TREE LINE
	TREE PLANTING



TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

STAMP		
DATE	04/16/19	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT
REV	DATE	DESCRIPTION

DATE	4-16-2019
SCALE	1"=30'
DRAWN BY	CJR
CHECKED BY	PSG
PROJECT NO.	19001

BUILDING:	
SHEET TITLE:	LAYOUT, MATERIALS, & PLANTING PLAN

DRAWING NO.
C-121



TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfield Drive, Groton, Massachusetts 01450

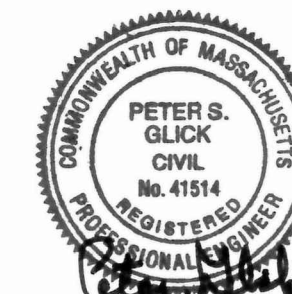
CIVIL ENGINEER:
SYMMES, MAINI & MCKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

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1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

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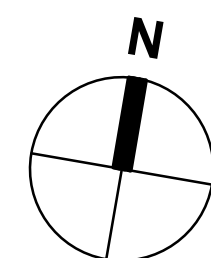
BUILDING:

SHEET TITLE:

**GRADING &
UTILITIES PLAN**

DRAWING NO.

C-131



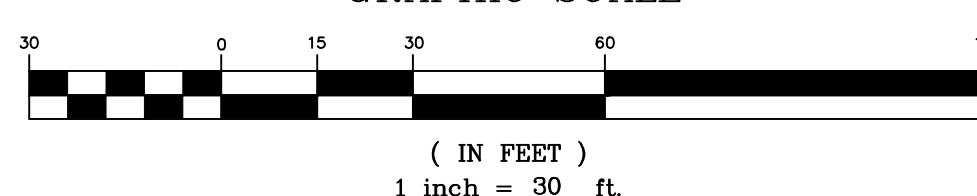
LEGEND

◀ FES	FLARED END SECTION
⋈	WATER GATE
● SMH	SEWER MANHOLE
● DMH	DRAIN MANHOLE
● TMH	TELEPHONE MANHOLE
● EMH	ELECTRIC MANHOLE
■ CB	CATCH BASIN
⊕ UP	UTILITY POLE
⊕	HYDRANT
• CO	CLEAN OUT
• PIV	POST INDICATOR VALVE
—	GUY WIRE
⊗	RIPRAP
x91.00	SPOT GRADE
— 1' —	1' CONTOUR
— 5' —	5' CONTOUR
— W —	WATER LINE
— D —	DRAIN LINE
— UD —	PERFORATED DRAIN LINE
— S —	SEWER LINE
— UGE —	UNDERGROUND ELECTRIC LINE
TC / TW	TOP OF CURB / TOP OF WALL
BC / BW	BOTTOM OF CURB / BOTTOM OF WALL
FFE	FINISH FLOOR ELEVATION
R+	RIM ELEVATION
L+	INVERT ELEVATION
TS&V	TAPPING SLEEVE & VALVE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
PCPE	PERFORATED CORRUGATED POLYETHYLENE PIPE
CLDI	CEMENT LINE DUCTILE IRON PIPE
CI	CAST IRON

GRADING & UTILITY NOTES:

- PRIOR TO CONSTRUCTION, VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON THE DRAWINGS. REPORT DISCREPANCIES TO THE ARCHITECT.
- FILE AND PAY FOR APPLICABLE PERMITS AND FEES (UNLESS OTHERWISE NOTED).
- PIPE MATERIALS (UNLESS OTHERWISE SPECIFIED):
STORM DRAIN: CORRUGATED POLYETHYLENE PIPE (CPE)
WATER: CLASS 52 CEMENT LINED DUCTILE IRON (CLDI)
SEWER: POLYVINYL CHLORIDE PIPE (PVC)
- PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS.
- PROTECT NEW AND EXISTING UTILITIES TO REMAIN, DURING CONSTRUCTION.
- COORDINATE WORK WITH APPROPRIATE UTILITY COMPANIES.
- CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. NOTIFY THE ARCHITECT OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.
- NOTIFY THE ARCHITECT A MINIMUM OF 5 DAYS PRIOR TO PERFORMING ANY WORK THAT INVOLVES CONFLICTS BETWEEN PROPOSED UTILITIES AND EXISTING UTILITIES TO REMAIN.
- IF UNDOCUMENTED UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, CONTACT THE ARCHITECT FOR DIRECTION, PRIOR TO ALTERING THE UTILITY IN ANY WAY.
- THE ELECTRIC AND TELEPHONE SERVICES SHOWN ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR AND UTILITY COMPANY.
- REFER TO SL1 PLAN FOR INFORMATION REGARDING THE SITE LIGHTING FIXTURES.
- VERIFY EXISTING SEWER INVERTS WHERE NEW UTILITY CONNECTIONS ARE PROPOSED. REPORT DISCREPANCIES FROM EXISTING OR PROPOSED CONNECTING INVERTS SHOWN TO THE ARCHITECT, PRIOR TO PERFORMING ANY SEWER WORK TRIBUTARY TO THE CONNECTION POINT.
- RESET RIMS OF EXISTING UTILITY FRAMES, COVERS, AND GRATES WITH NEW BRICK AND MORTAR RISER COURSE TO MATCH PROPOSED FINISH GRADE WITHIN THE LIMIT OF WORK. NOTIFY ARCHITECT IF EXISTING STRUCTURES NEED ADDITIONAL REPAIR OR REPLACEMENT DUE TO CONDITION.
- INSTALL BITUMINOUS PAVEMENT AND CEMENT CONCRETE TO HAVE 1% MINIMUM SLOPE FOR DRAINAGE, AND IN ACCORDANCE WITH THE PROPOSED GRADES SHOWN. REPORT ANY AREAS OF DISCREPANCY WITH THE GRADING INDICATED TO THE ARCHITECT PRIOR TO GRADING BASE MATERIAL.
- PROVIDE CONCRETE THRUST BLOCKS AT ALL BENDS 22.5° AND GREATER IN NEW WATER LINES.
- CONFIRM NEW HYDRANTS, VALVES, AND FITTINGS MEET THE REQUIREMENTS OF THE TURNERS FALLS FIRE DEPARTMENT AND WATER DEPARTMENT.
- ESTABLISH AND MAINTAIN CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.
- CLEAN UTILITY STRUCTURES PRIOR TO PROJECT CLOSE-OUT.

GRAPHIC SCALE





TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

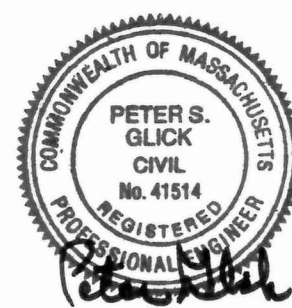
CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

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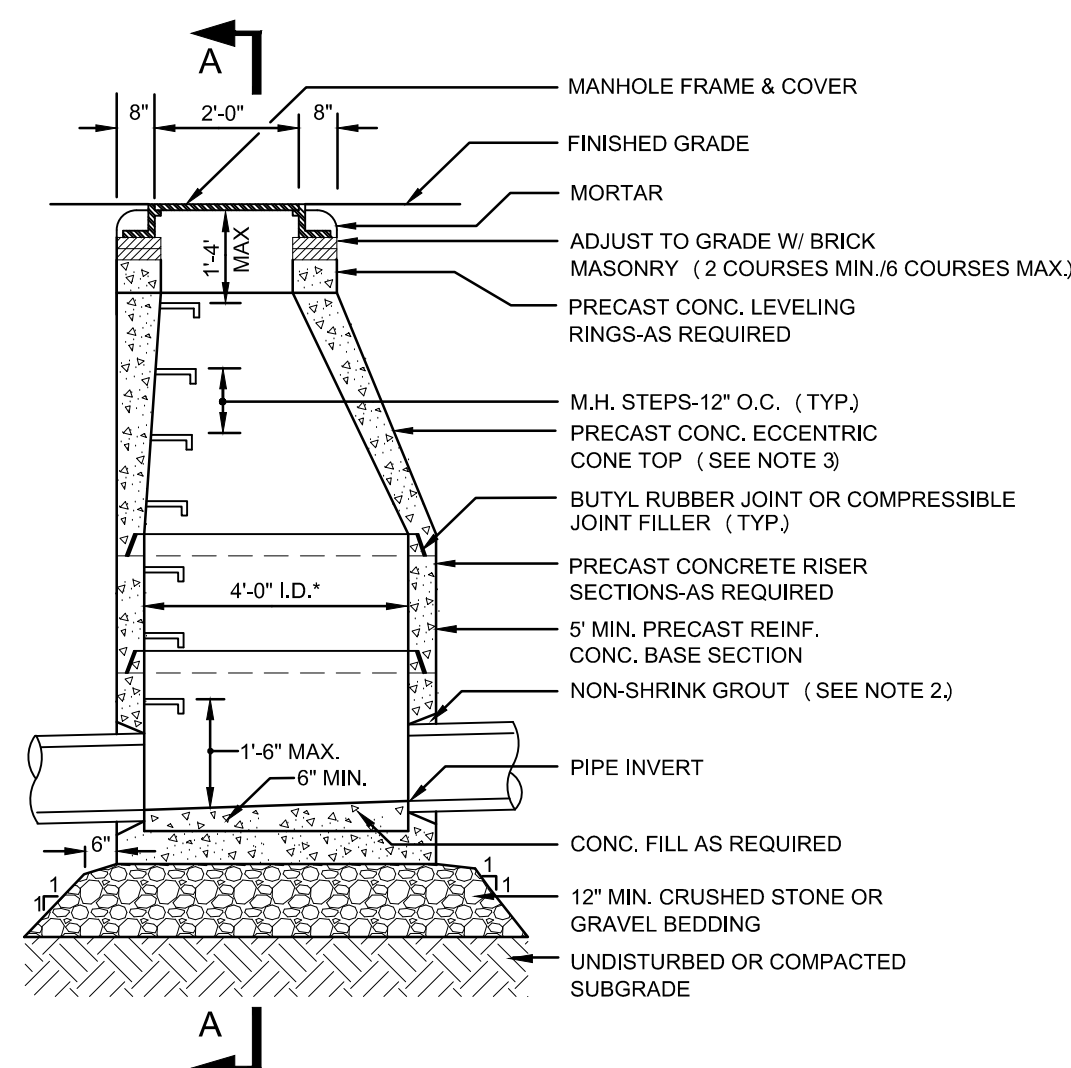
DATE	NTS
SCALE	
DRAWN BY	CJR
CHECKED BY	PSG
PROJECT NO.	19001

BUILDING:
SHEET TITLE:

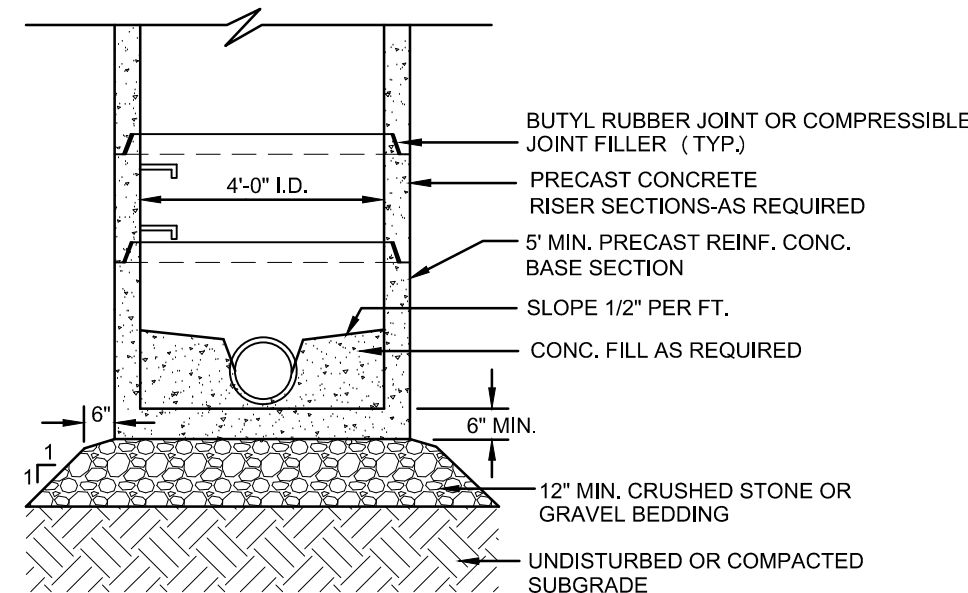
DETAILS I

DRAWING NO.

C-501

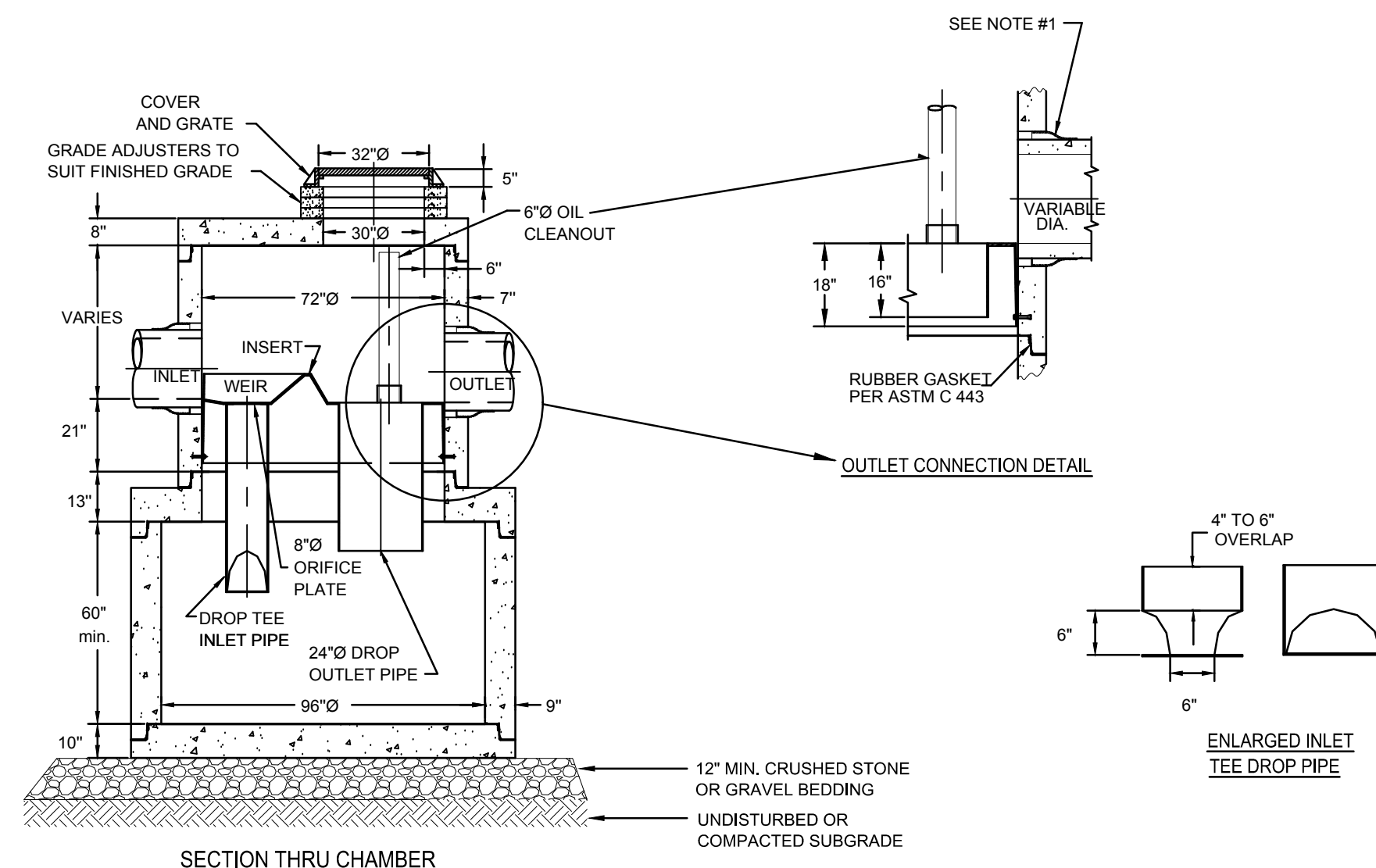


NOTE: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. NEOPRENE SEAL TO CONFORM TO ASTM C-443 (SANITARY M.H. ONLY.)
3. PROVIDE SLAB TOP WHERE REQUIRED.

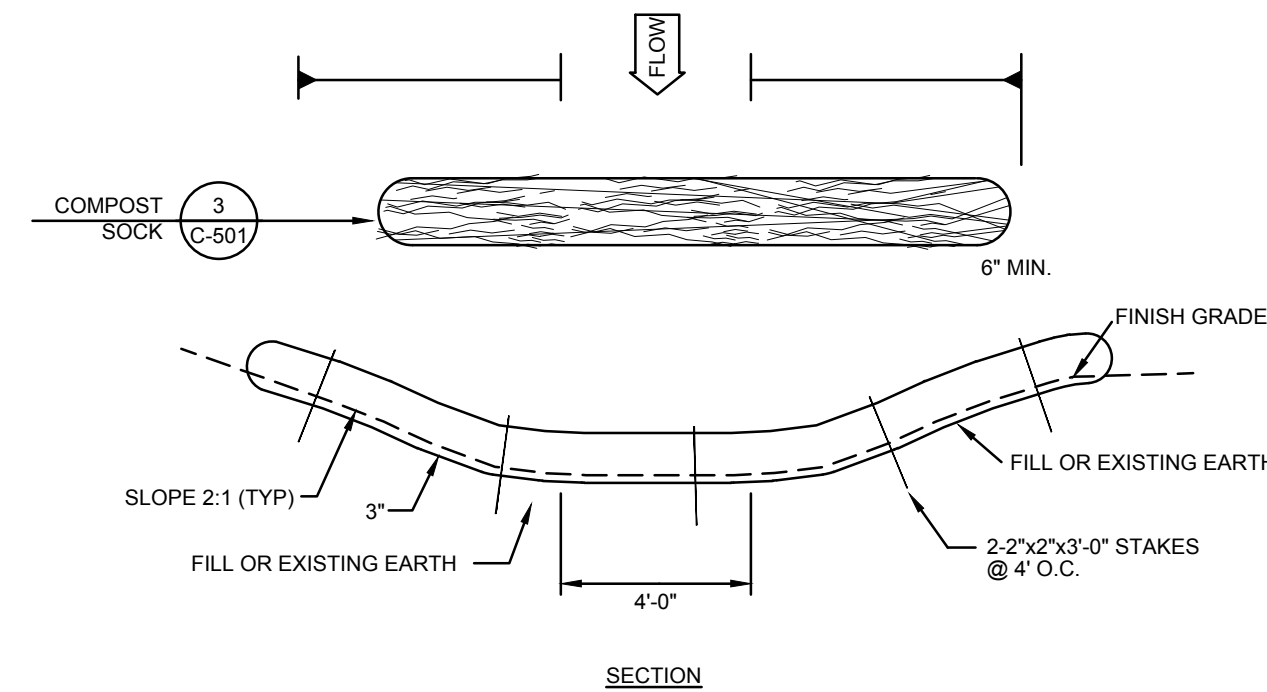


SECTION A

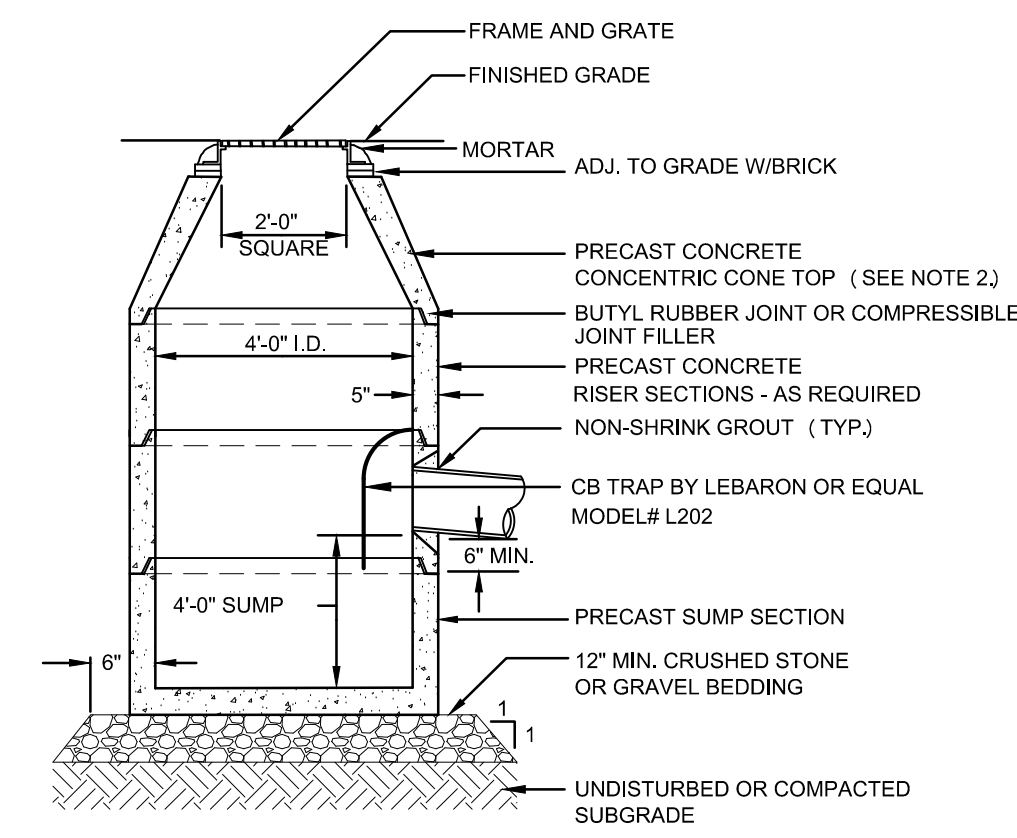
* PROVIDE 5'-0" I.D. SECTIONS AS REQUIRED FOR MULTIPLE/LARGE DIAMETER PIPES.



NOTE: 1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/ VENT PIPE.
3. STRUCTURE ADEQUATE FOR H-20 LOADING.

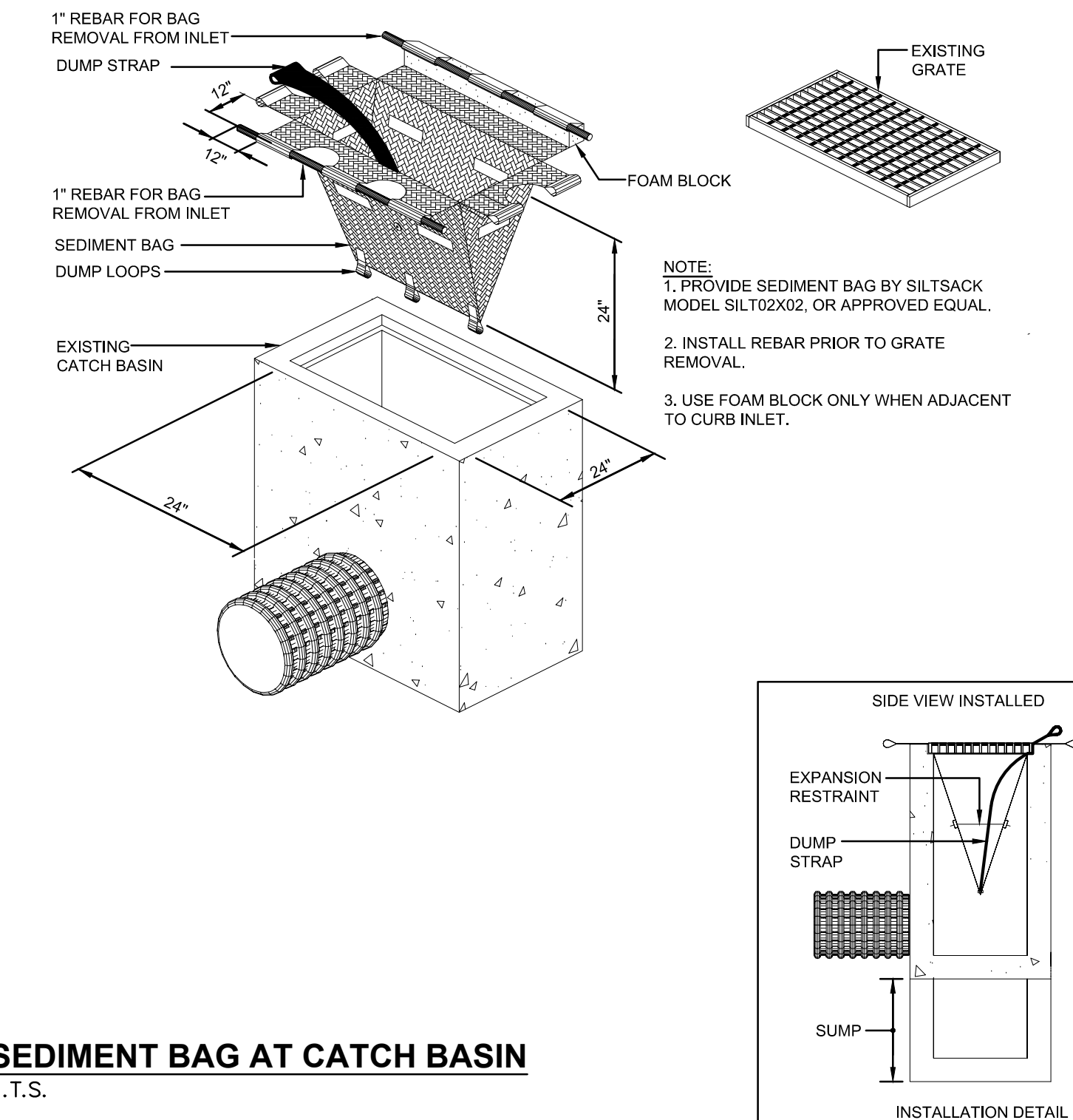


7 TEMPORARY DRAINAGE SWALE WITH COMPOST SOCK EROSION CHECK DAM
N.T.S.

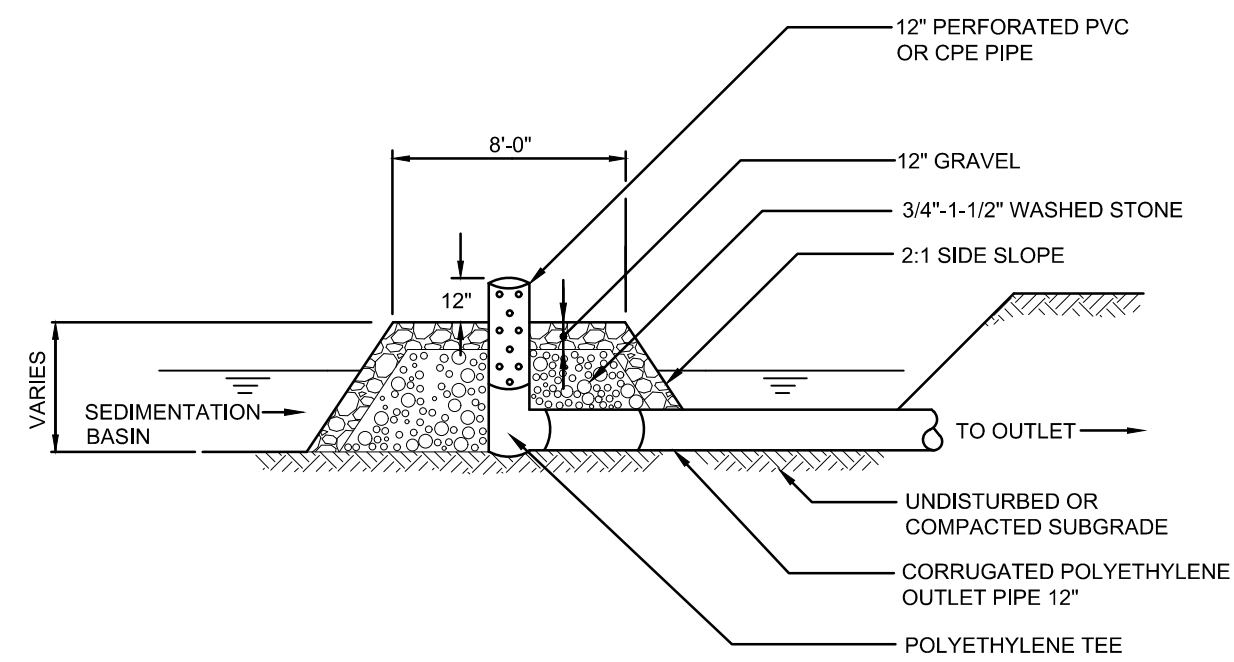


NOTES: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. PROVIDE SLAB TOP WHERE PIPE COVER < 36"

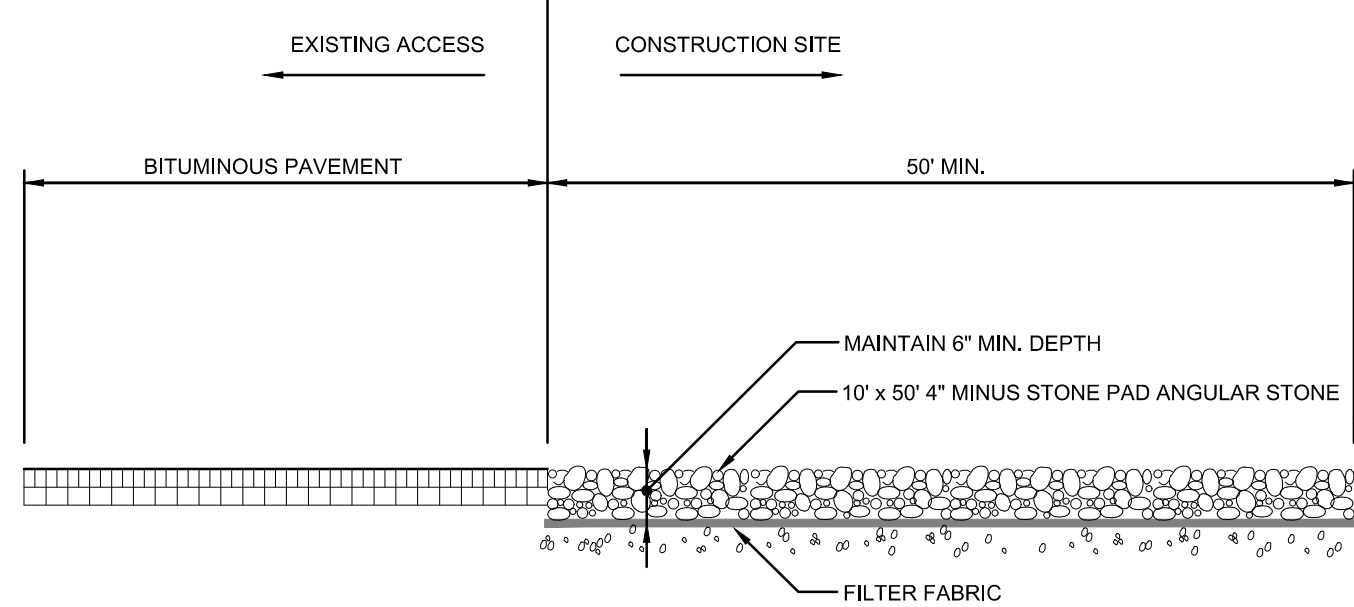
8 PRECAST CONCRETE CATCHBASIN
N.T.S.



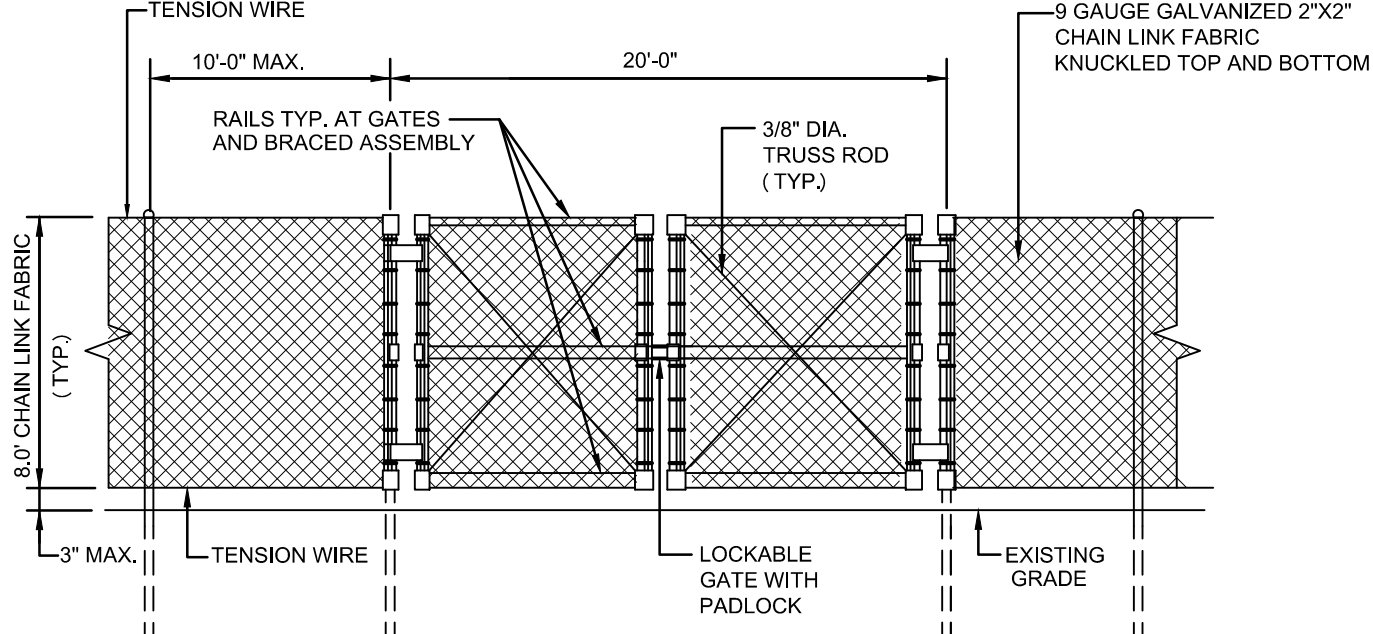
6 SEDIMENT BAG AT CATCH BASIN
N.T.S.



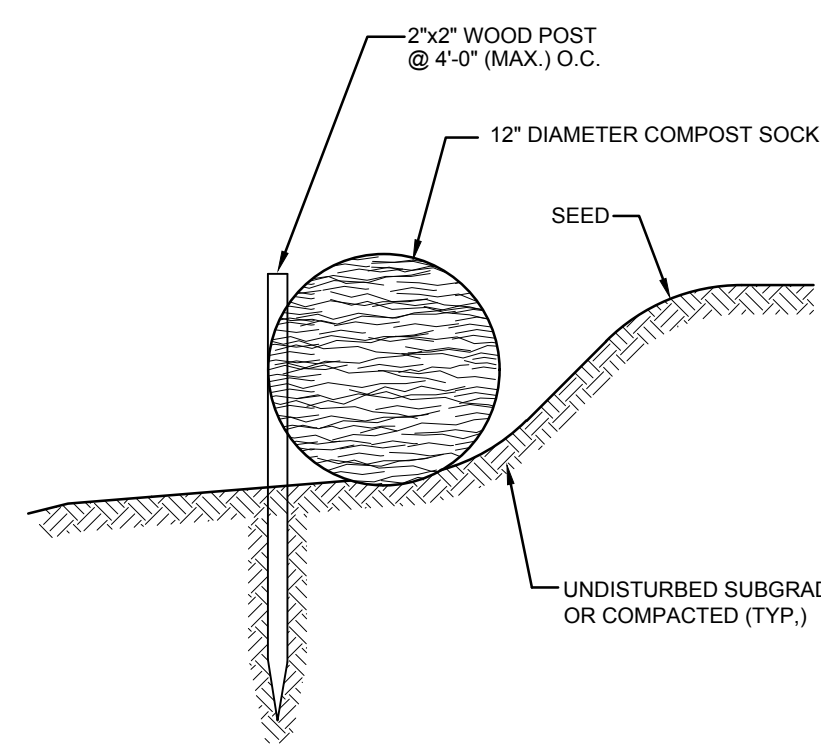
6 TEMPORARY SEDIMENTATION BASIN OUTLET DEVICE
N.T.S.



1 TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.

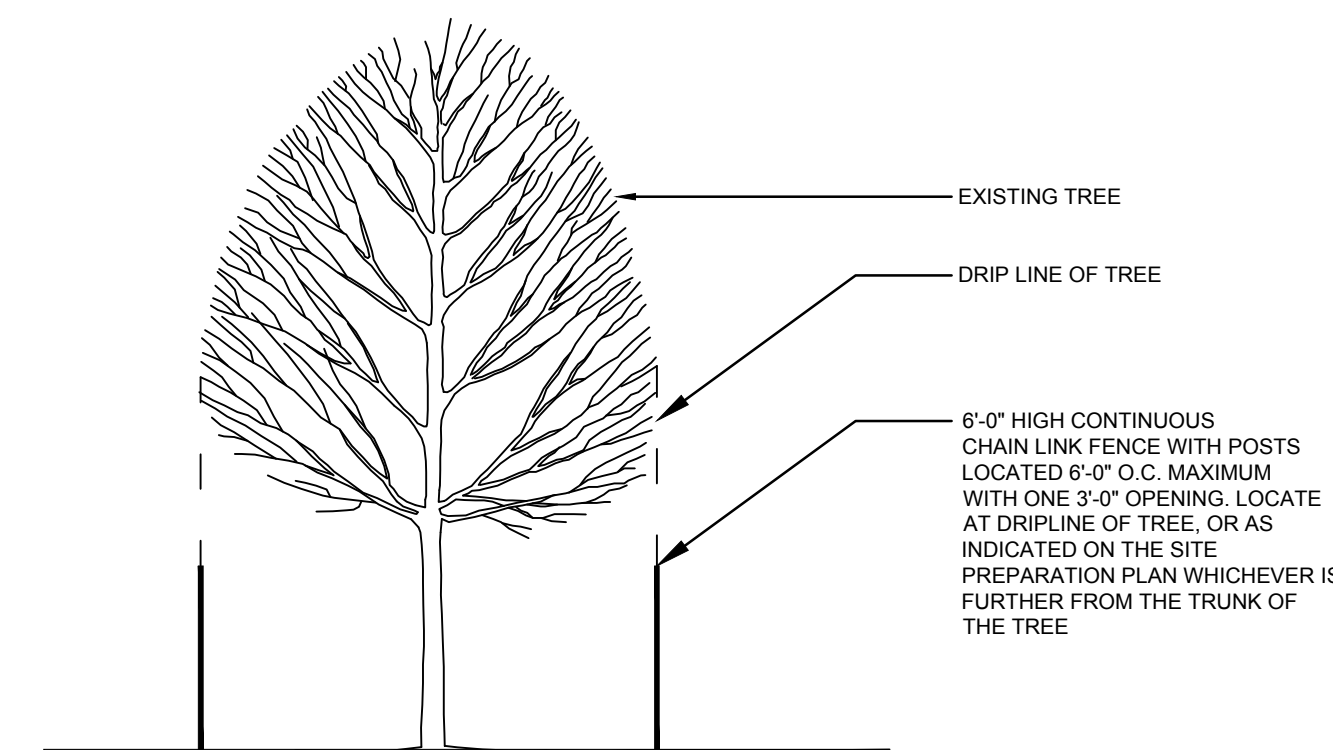


2 TEMPORARY CONSTRUCTION FENCE W/GATE
N.T.S.



NOTE: INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS

3 COMPOST SOCK
N.T.S.



4 TREE PROTECTION DETAIL
N.T.S.



TOWN OF
MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
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22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

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DATE
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PROJECT NO. 19001

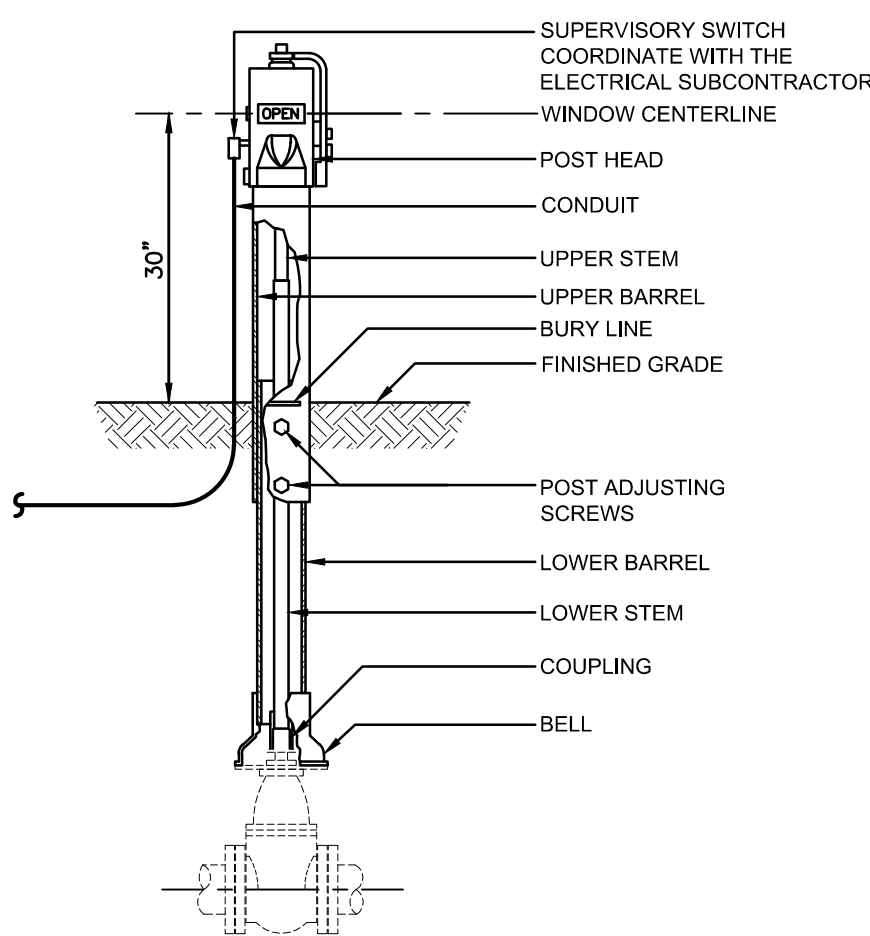
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SHEET TITLE:

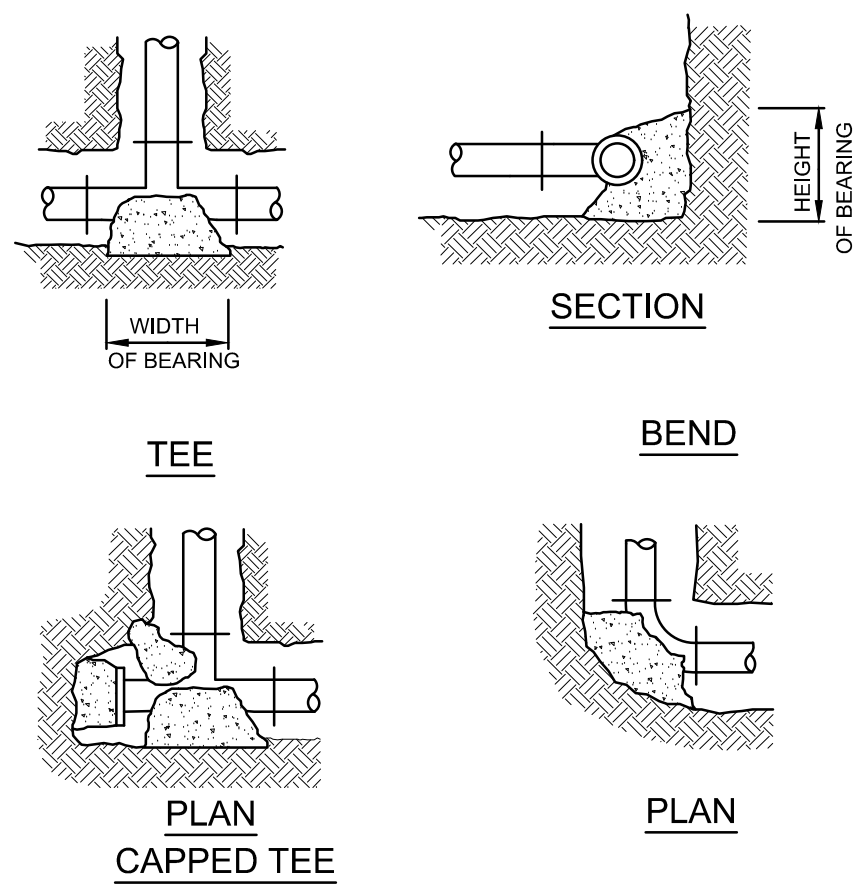
DETAILS II

DRAWING NO.

C-502



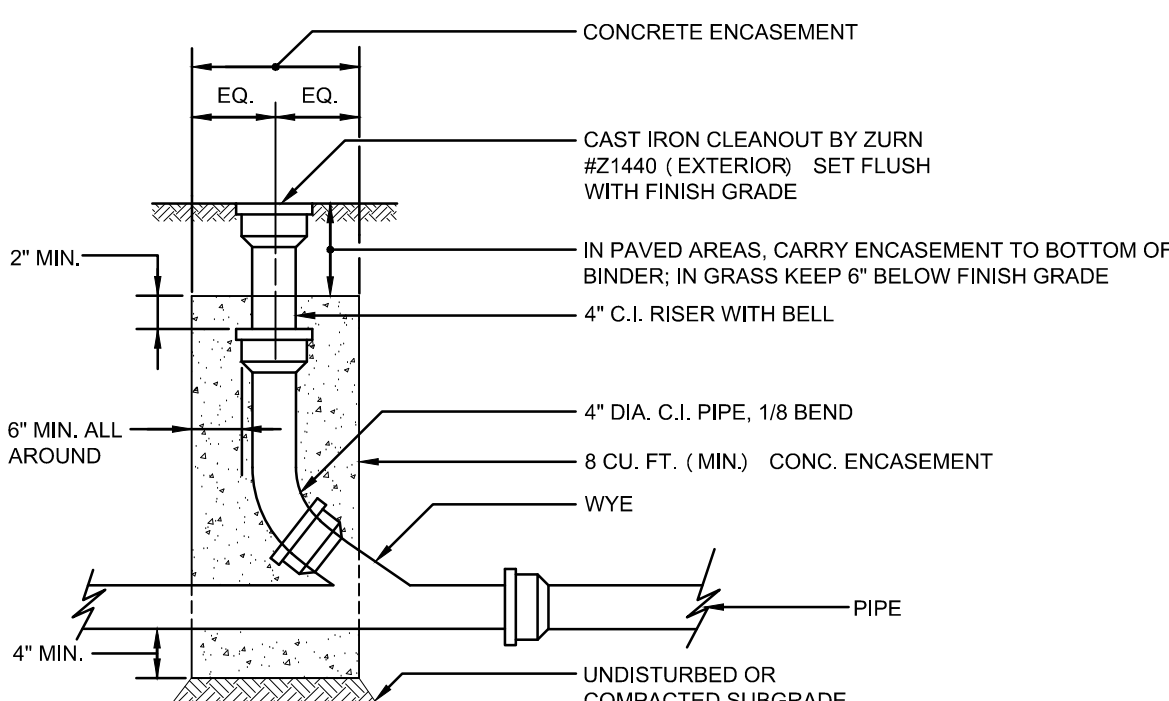
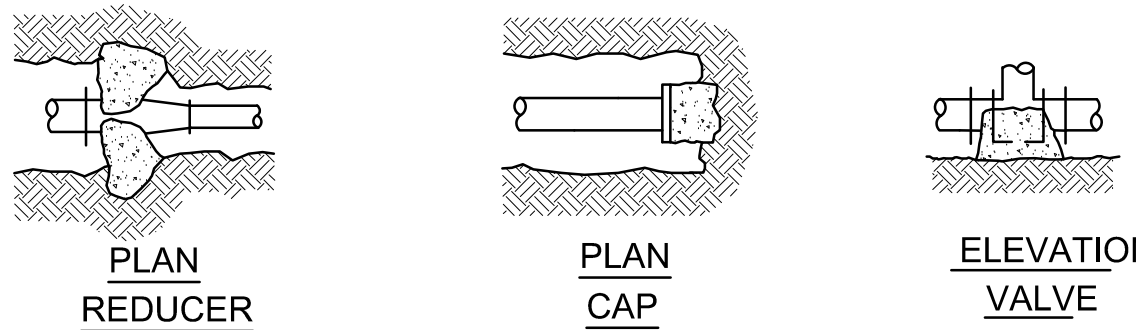
8 POST INDICATOR VALVE
N.T.S.



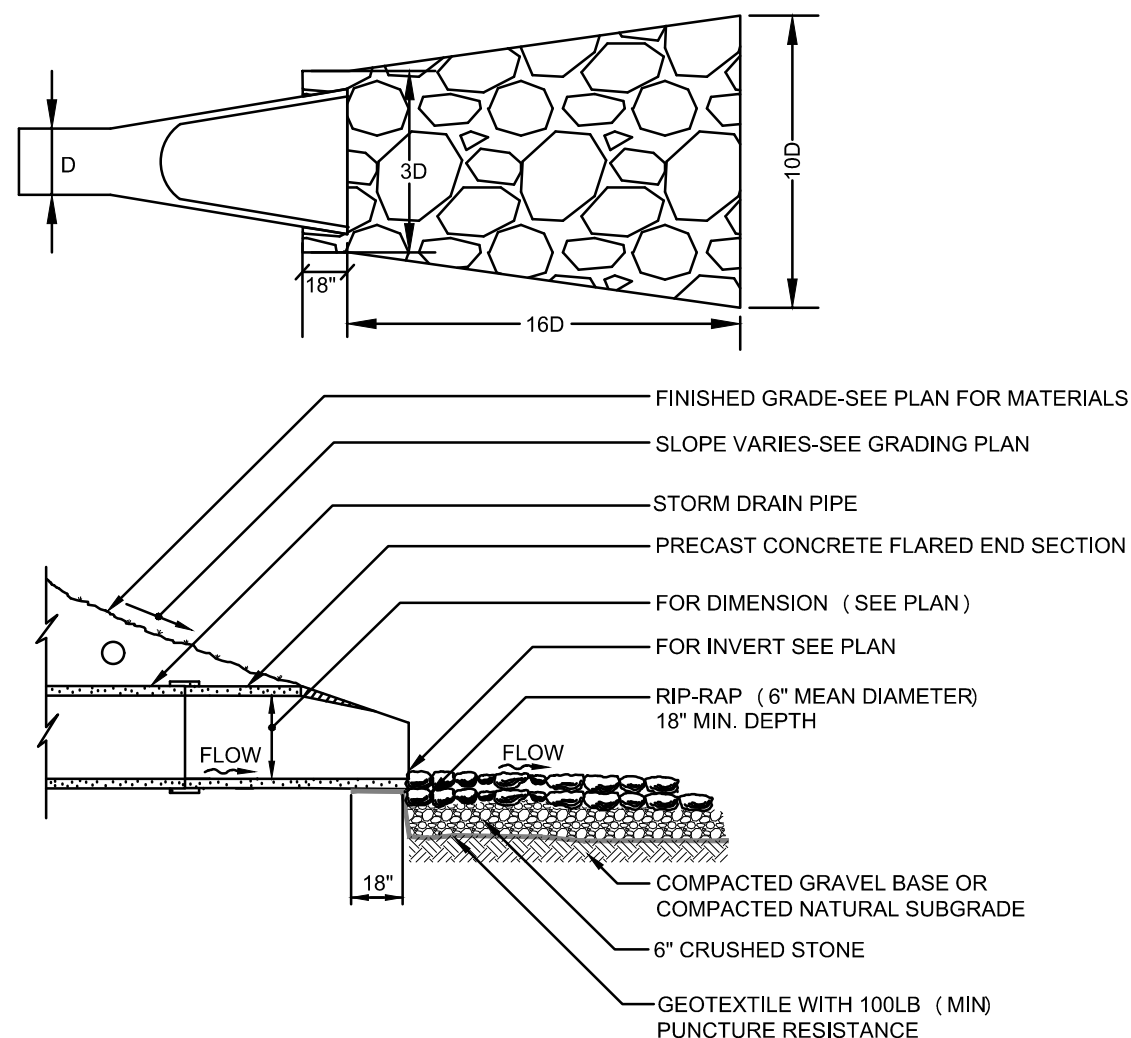
9 THRUST BLOCKS - FORCE MAIN
N.T.S.

MINIMUM BEARING AREA (SQUARE FEET)							
FITTINGS PIPE SZ.	90 °	45 °	22-1/2°	11-1/4°	CAPS & TEES	VALVES	REDUC.
6"	4	2	2	2	3	3	3
8"	6	3	3	3	5	5	5
10"	9	4	4	4	6	6	6
12"	12	7	4	3	9	9	9

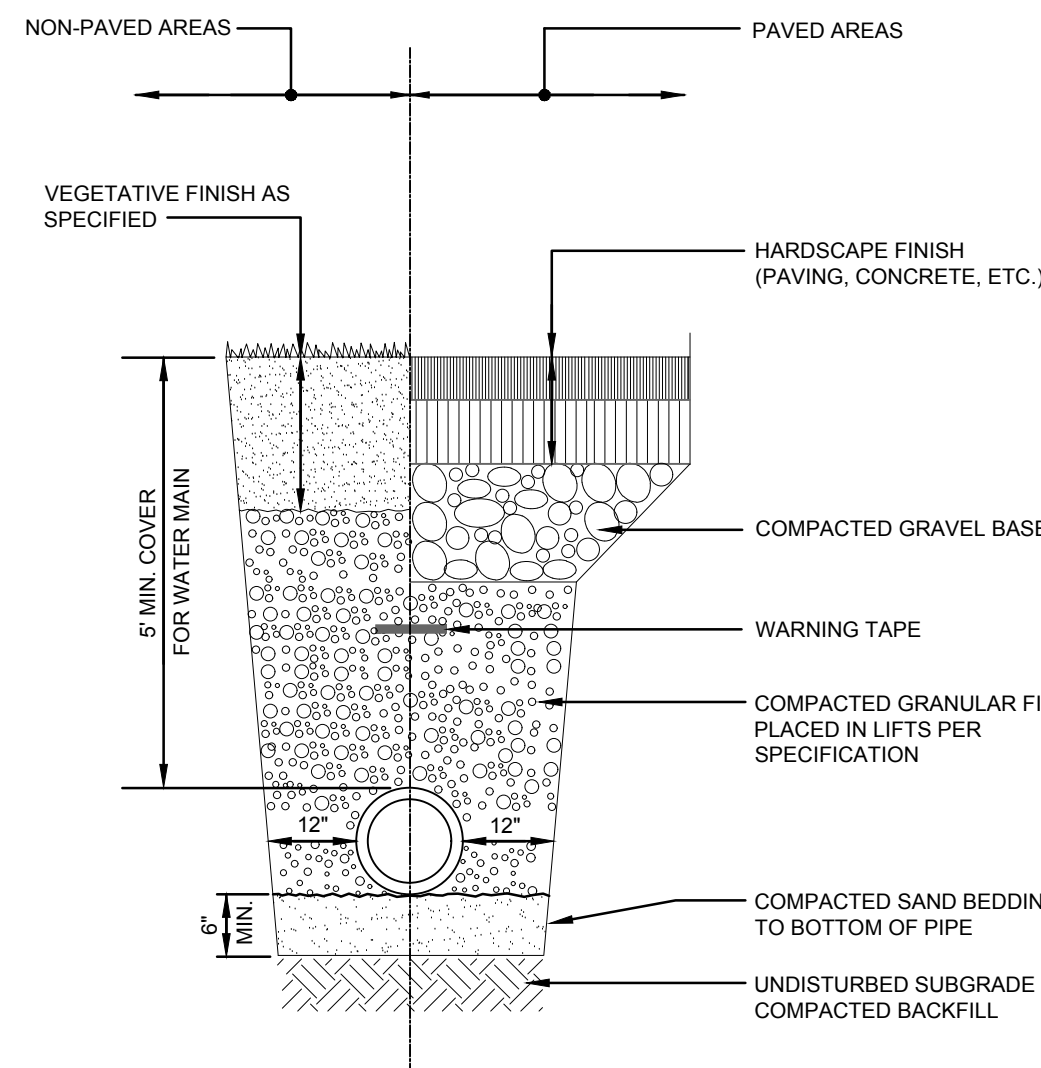
NOTE:
1. WIDTH & HEIGHT OF BEARING AREAS SHALL BE APPROX. THE SAME.
2. BEARING SHALL BE ON UNDISTURBED SOIL.



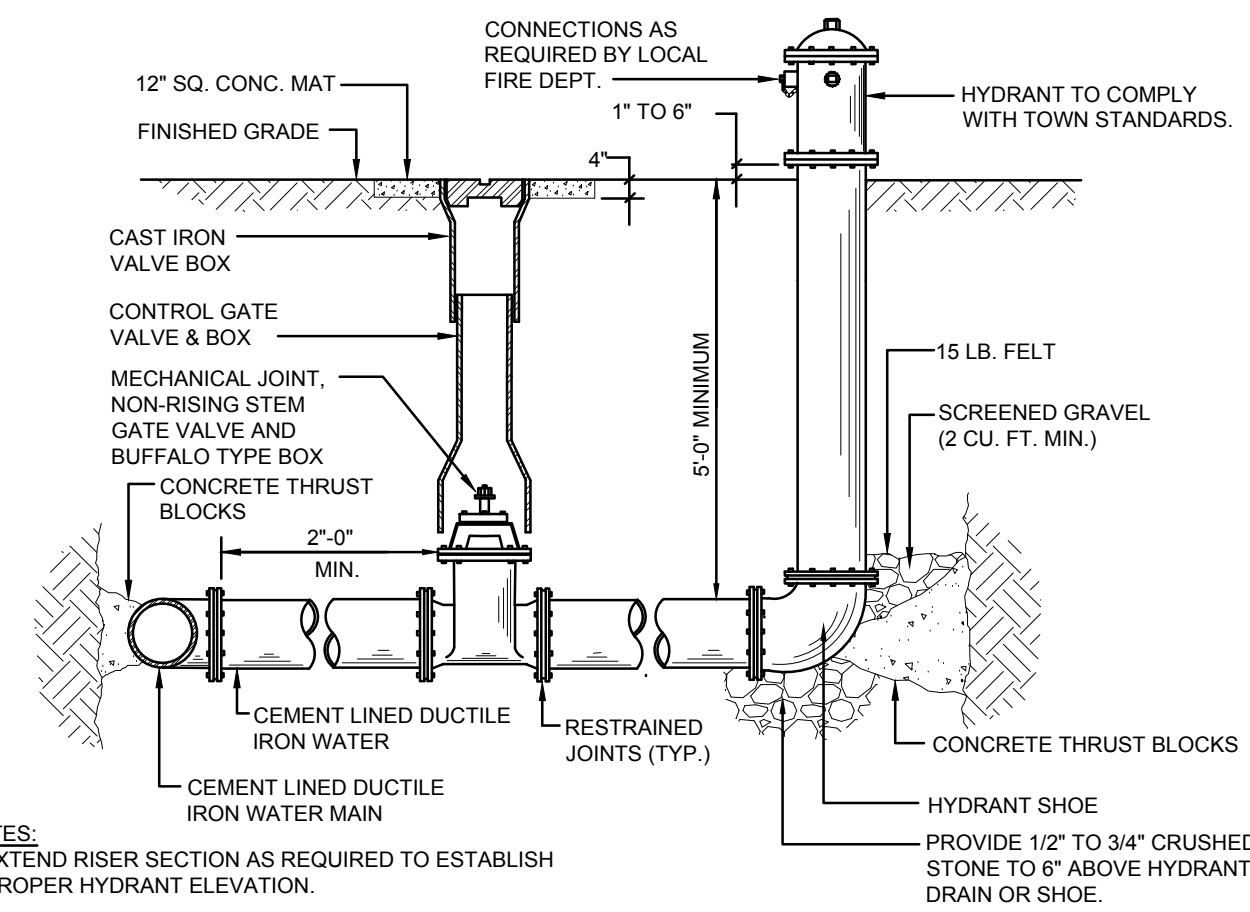
4 CLEANOUT
N.T.S.



5 FLARED END
N.T.S.

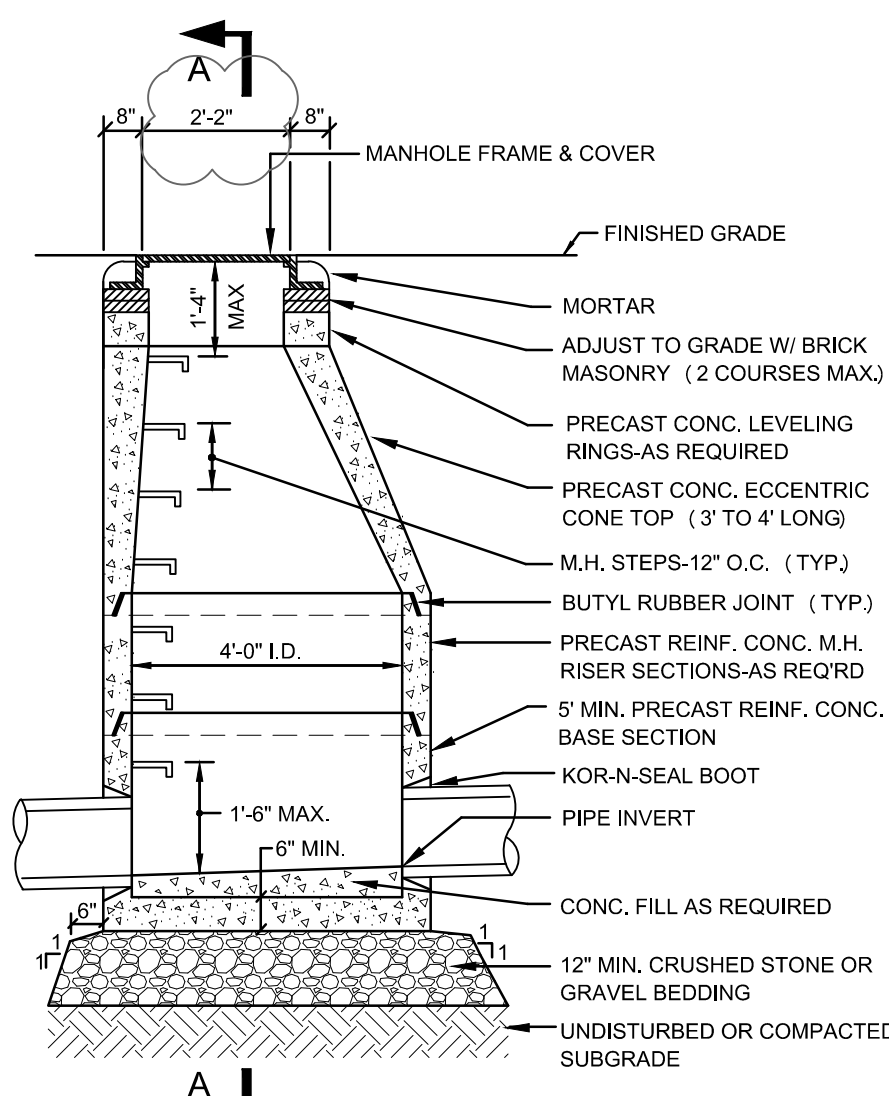


6 TRENCH SECTION - WATER & ELEC / TELECOM
N.T.S.

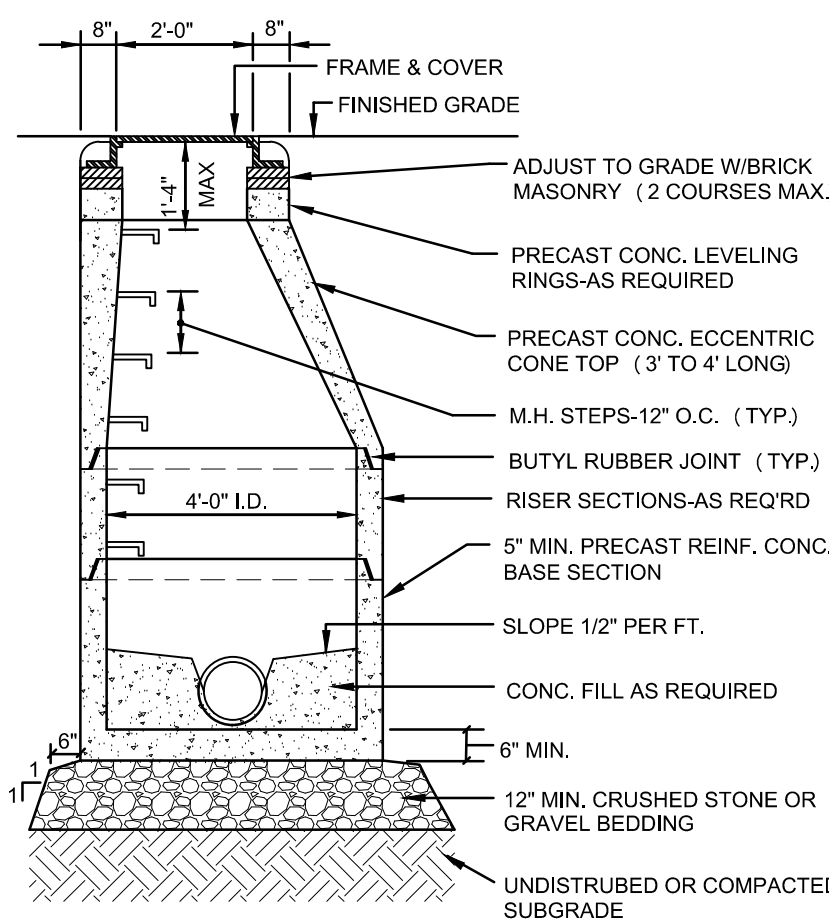


NOTES:
1. EXTEND RISER SECTION AS REQUIRED TO ESTABLISH PROPER HYDRANT ELEVATION.
2. SEE THRUST BLOCK DETAIL FOR CONCRETE THRUST BLOCK REQUIREMENTS.

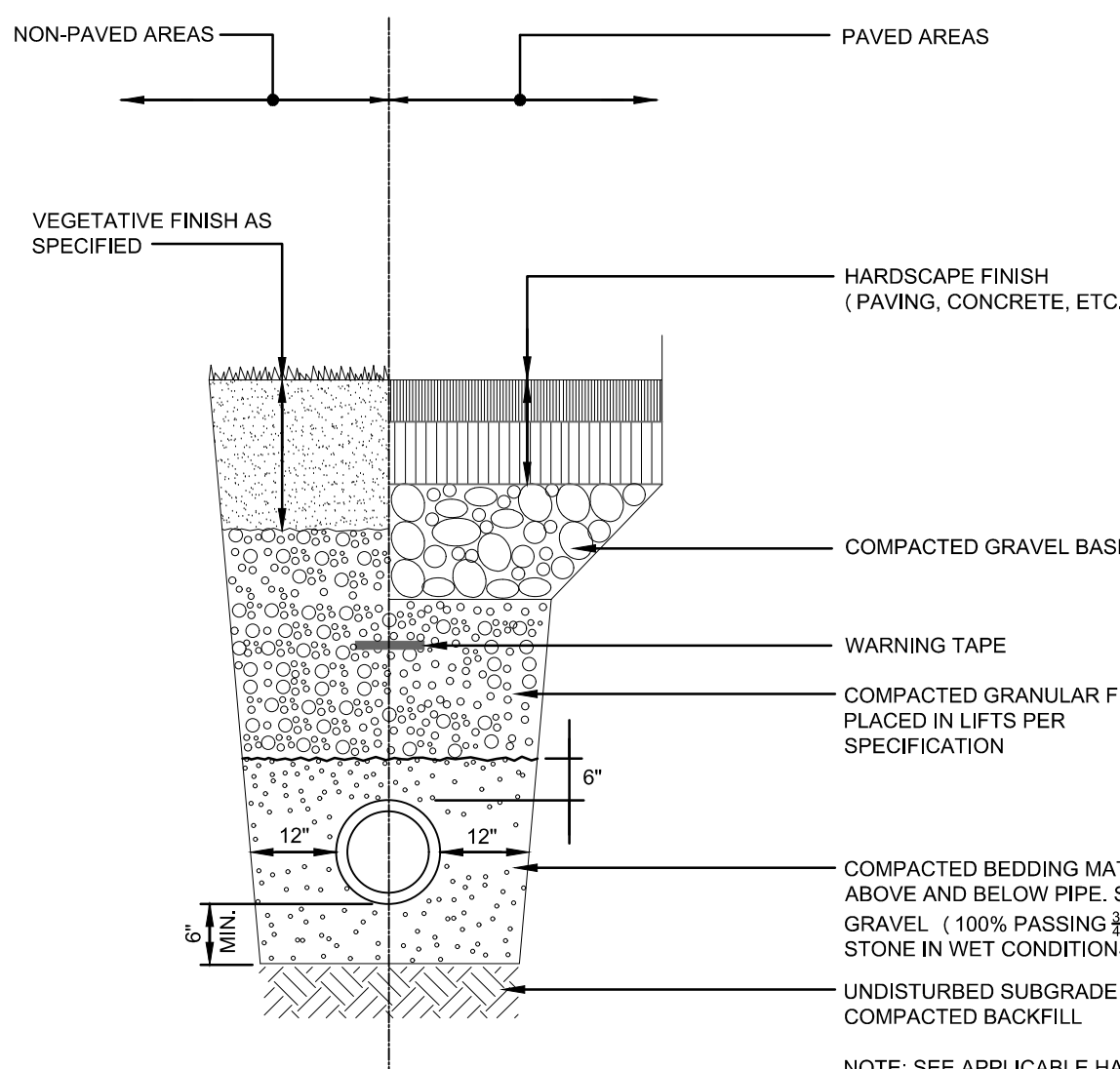
7 HYDRANT
N.T.S.



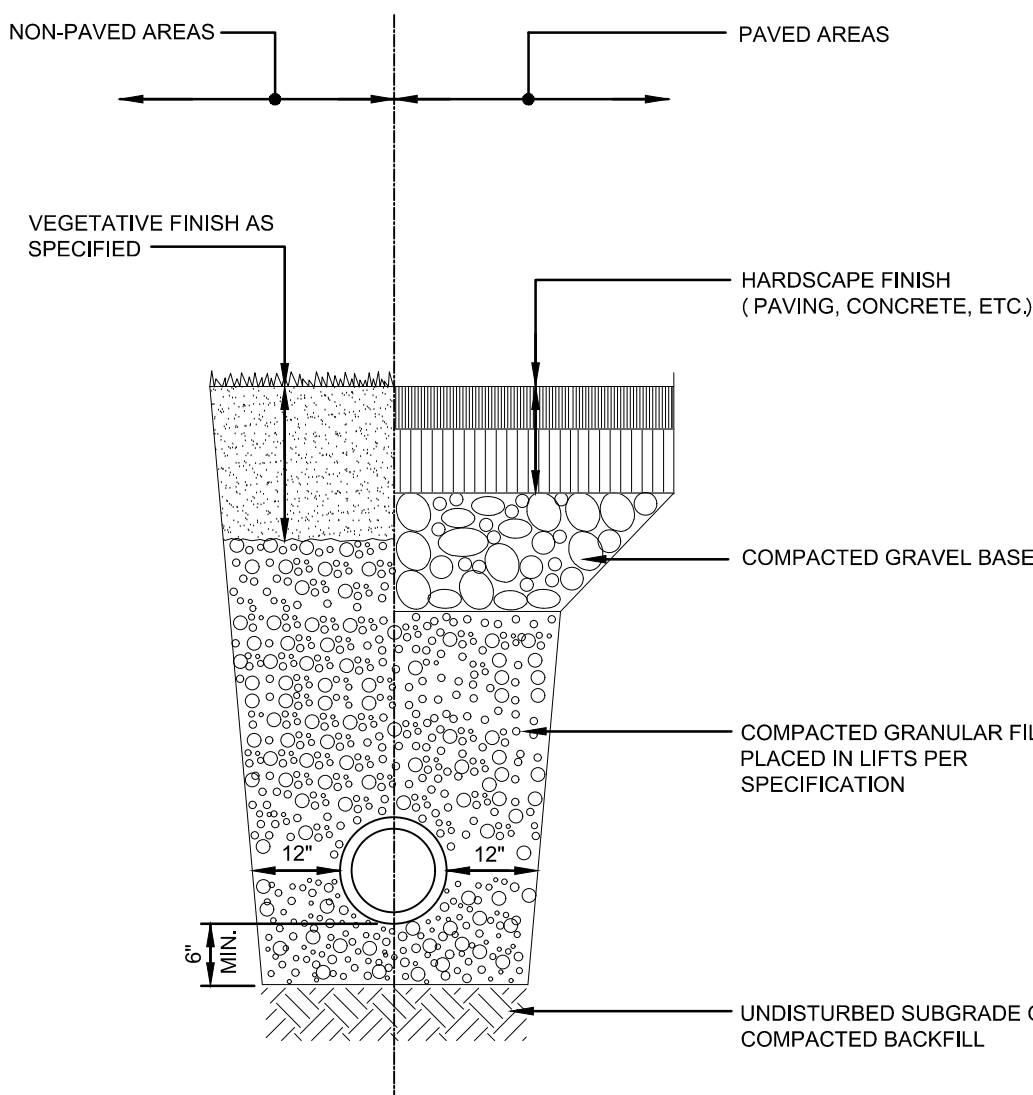
1 STANDARD SEWER MANHOLE
N.T.S.



2 TRENCH SECTION - SEWER PIPE
N.T.S.



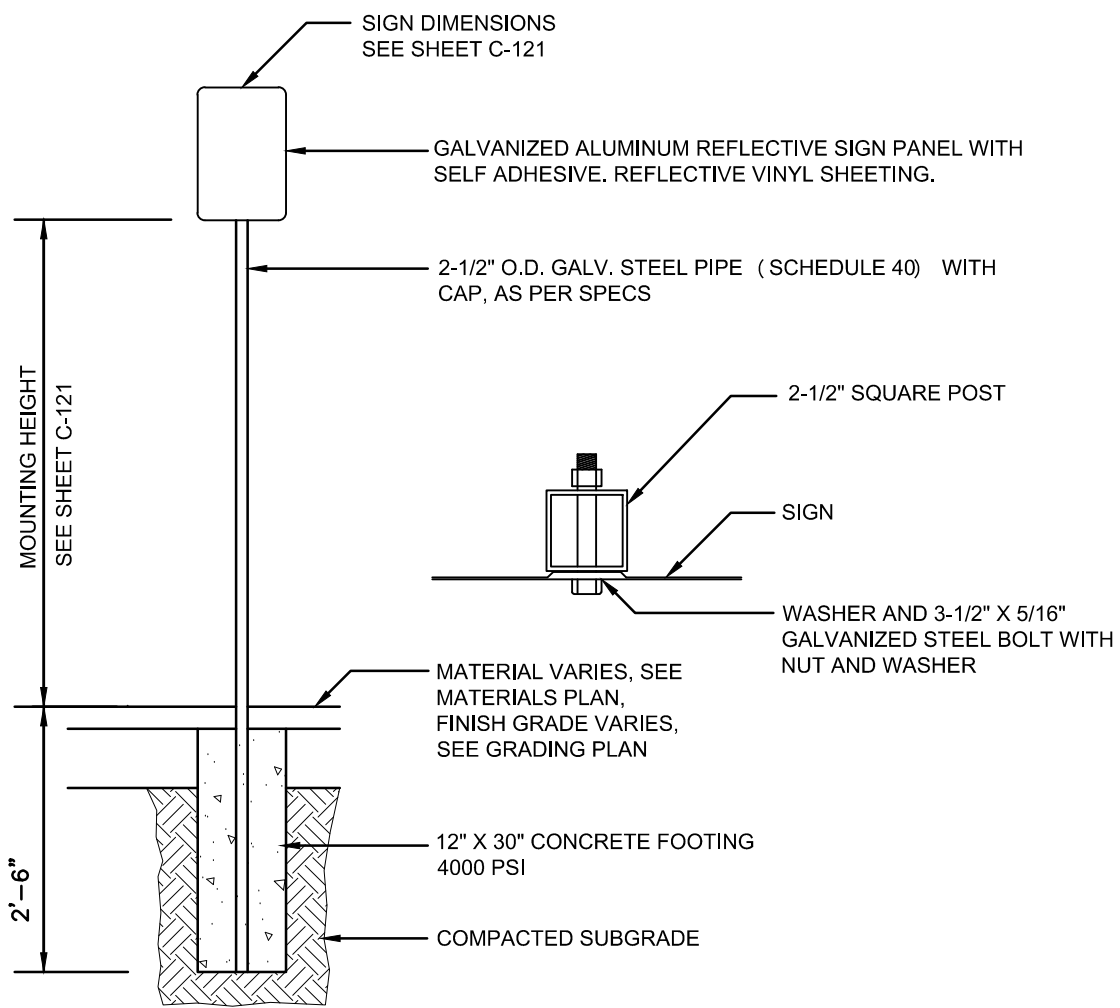
NOTE: SEE APPLICABLE HARDSCAPE DETAIL FOR THICKNESS OF HARDSCAPE MATERIAL AND GRAVEL BASE COURSE.



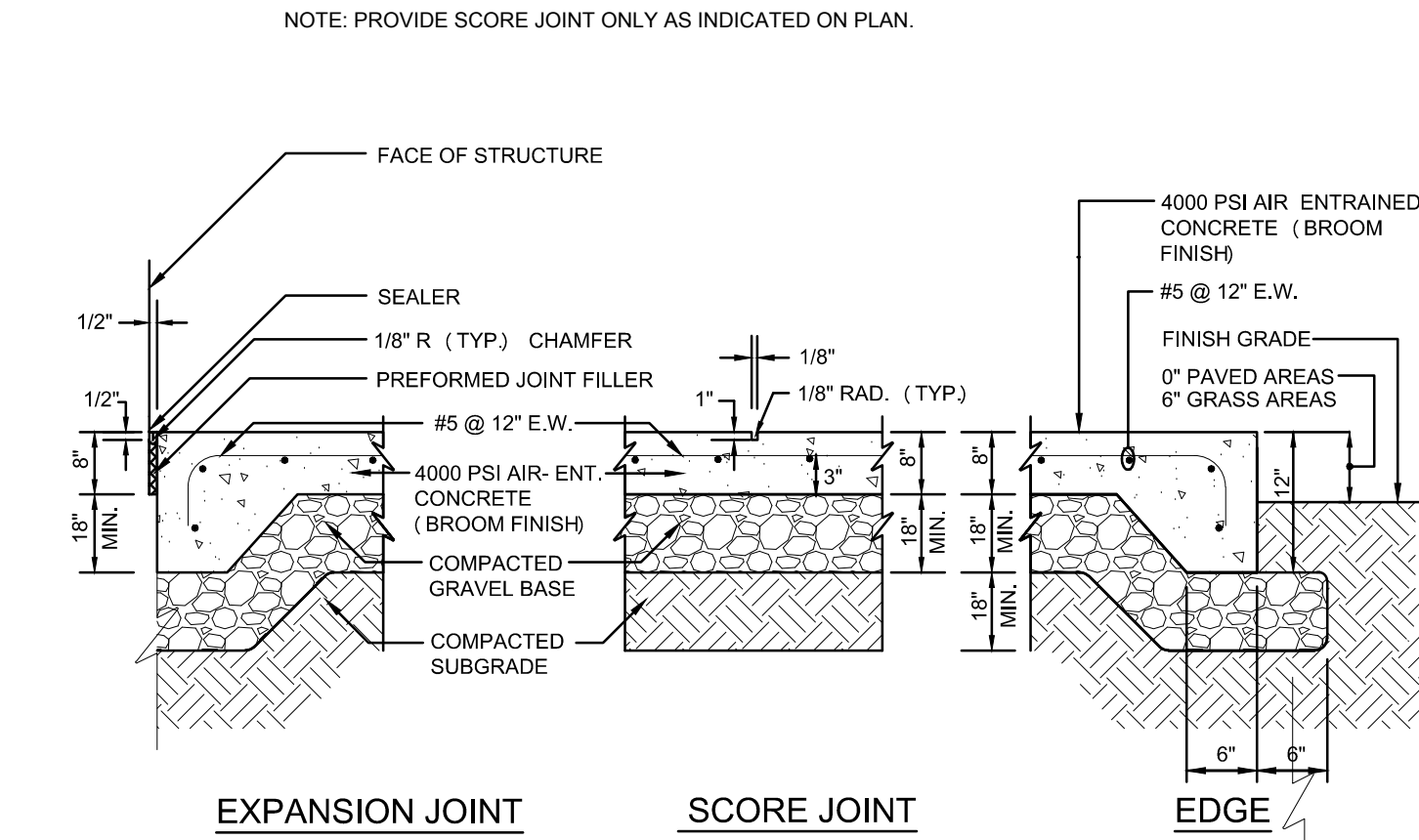
NOTE: SEE APPLICABLE HARDSCAPE DETAIL FOR THICKNESS OF HARDSCAPE MATERIAL AND GRAVEL BASE COURSE.

3/C-502

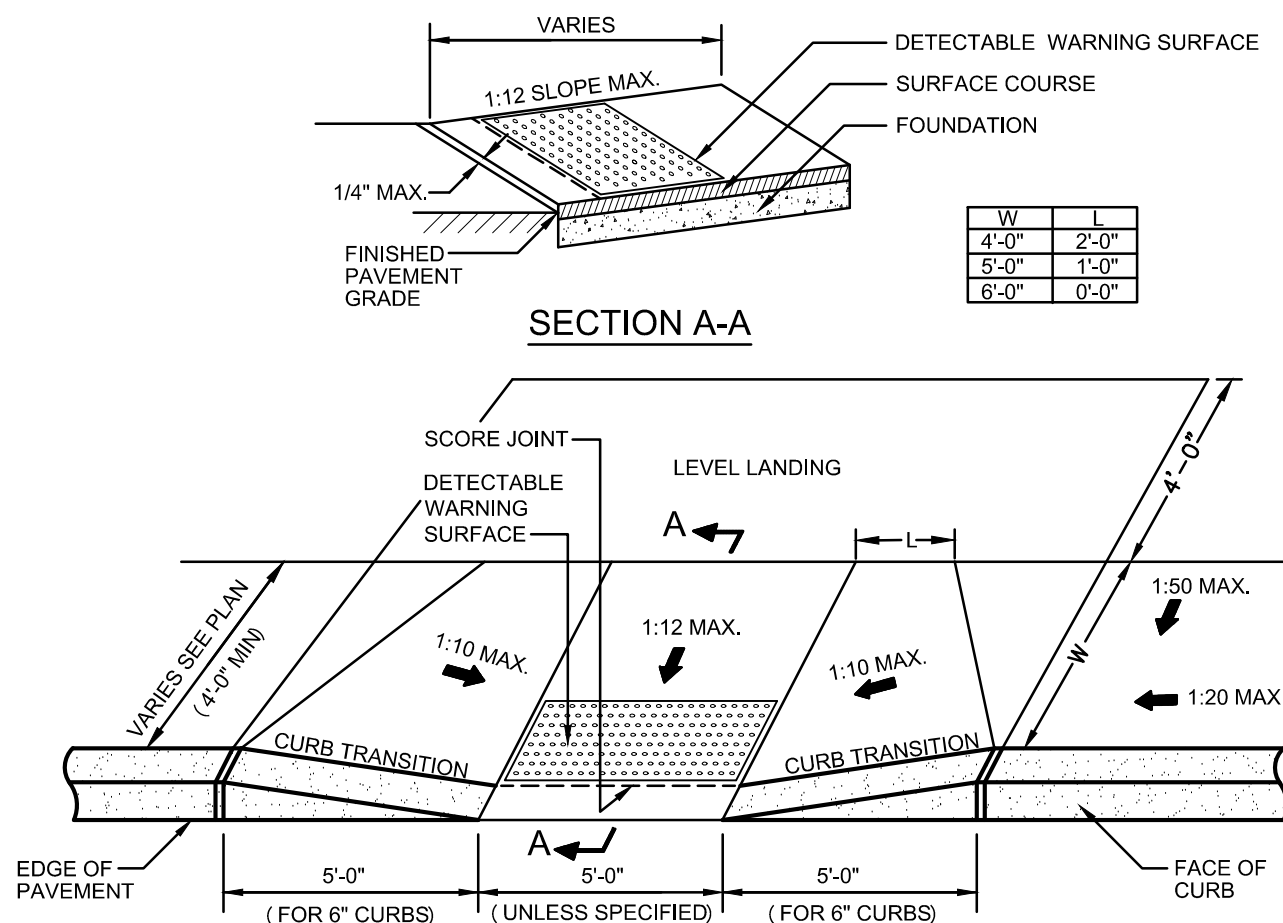
3 TRENCH SECTION - CPE DRAINS
N.T.S.



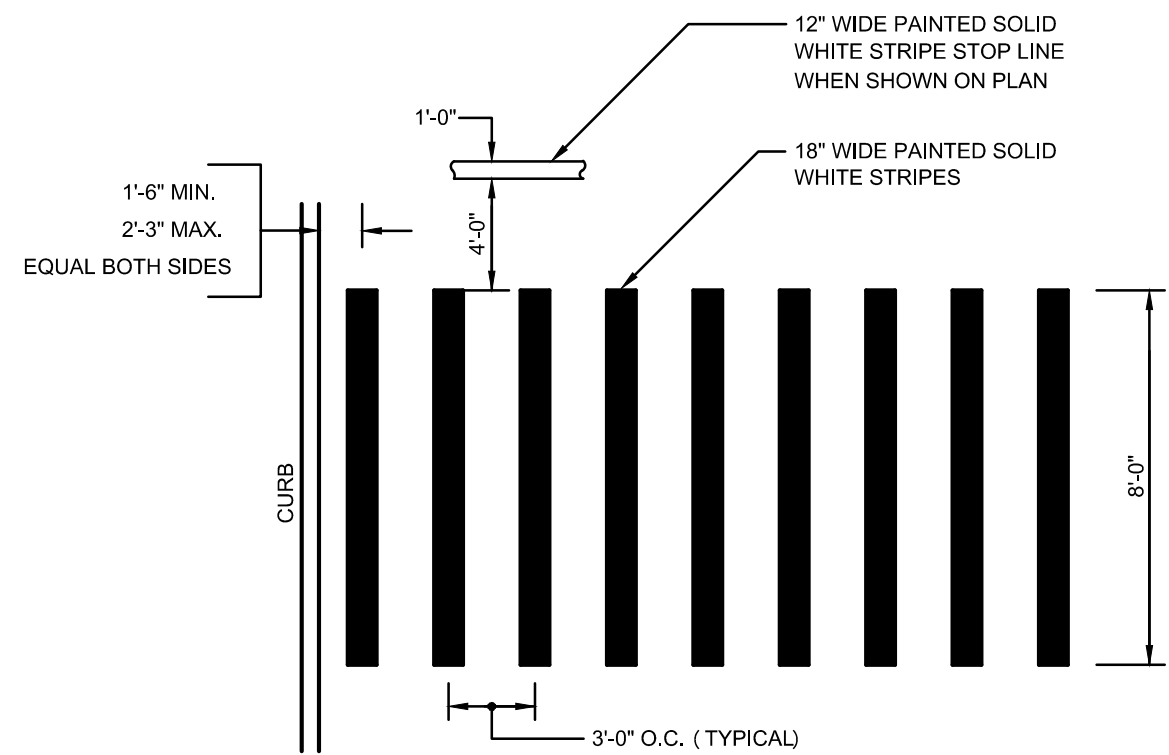
8 **PARKING / TRAFFIC SIGN**
N.T.S.



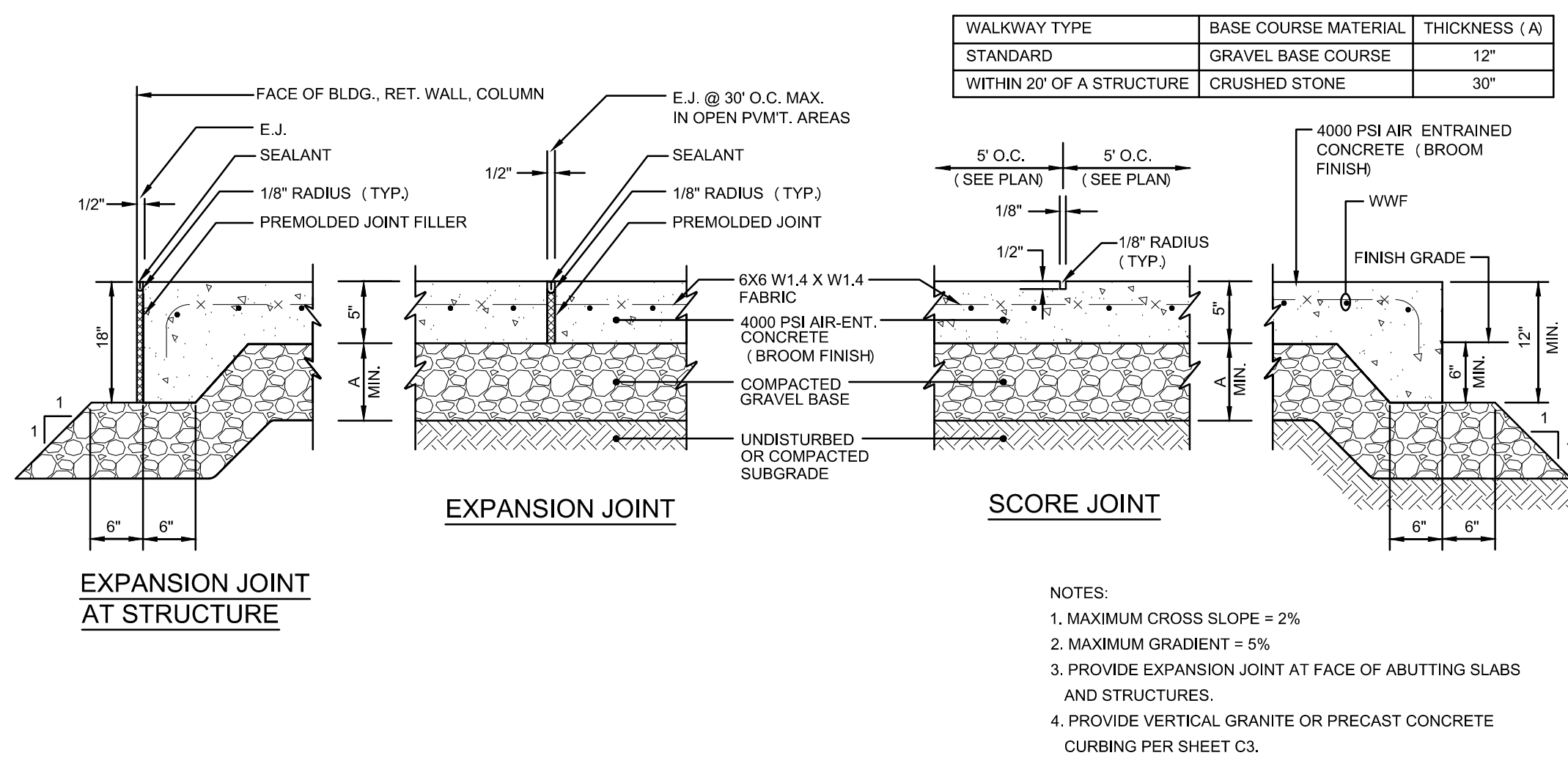
9 **CONCRETE EQUIPMENT PAD**
N.T.S.



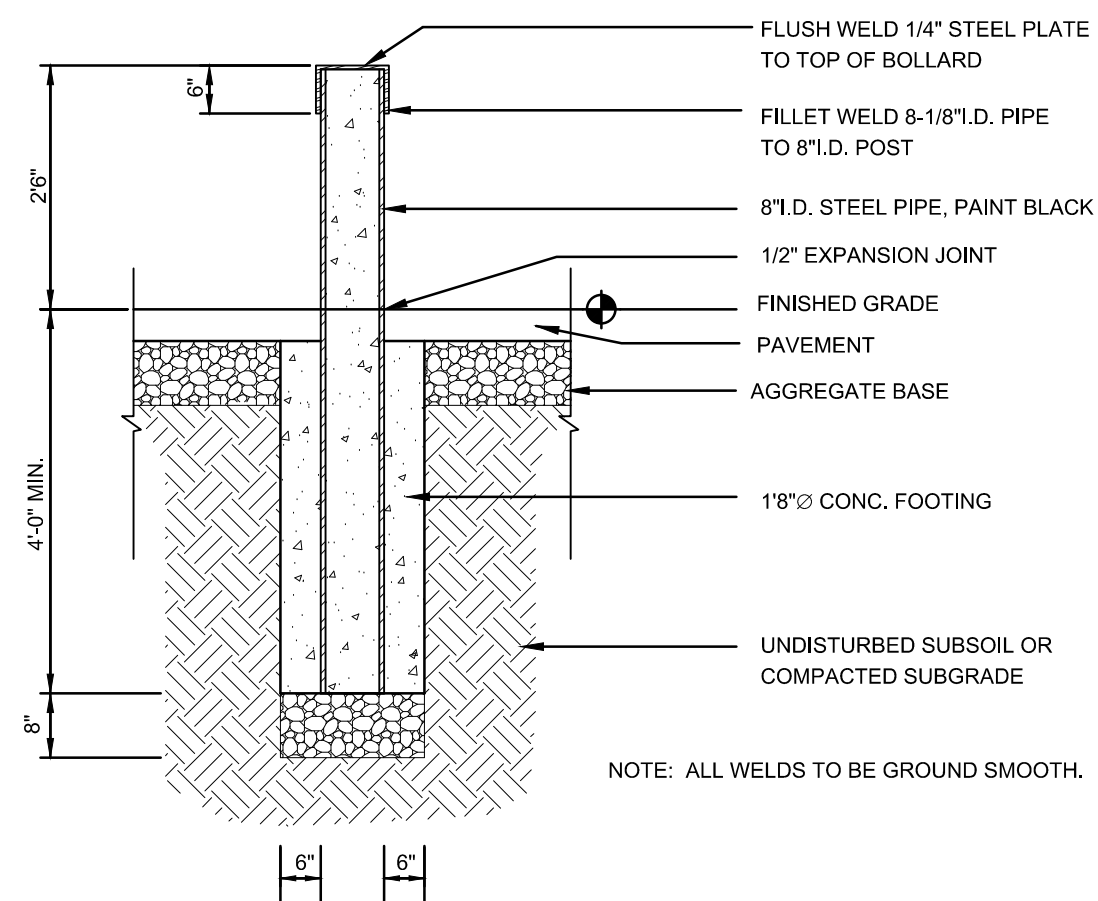
10 **ACCESSIBLE CURB CUT (TYPE 1)**
N.T.S.



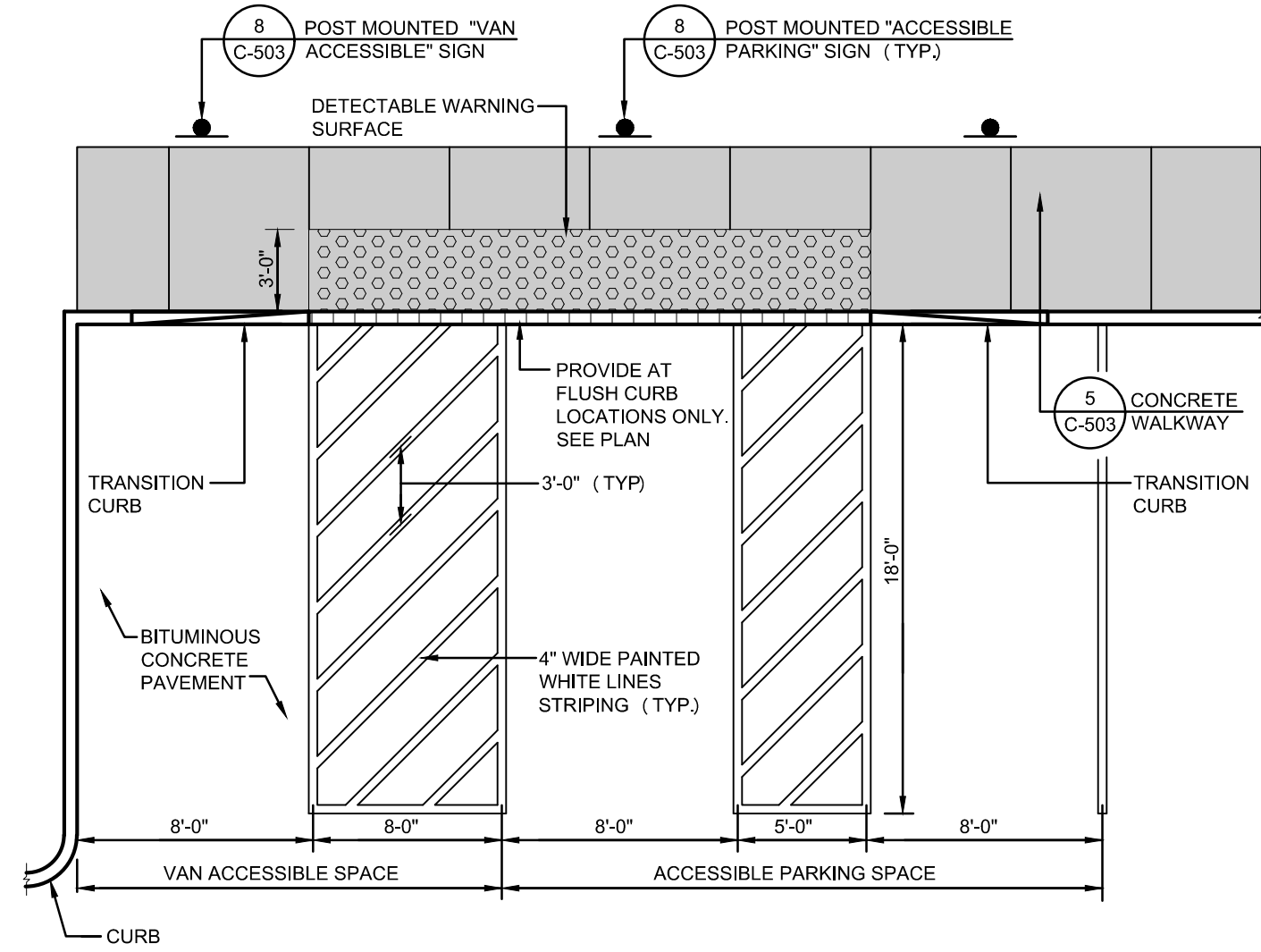
11 **CROSSWALK**
N.T.S.



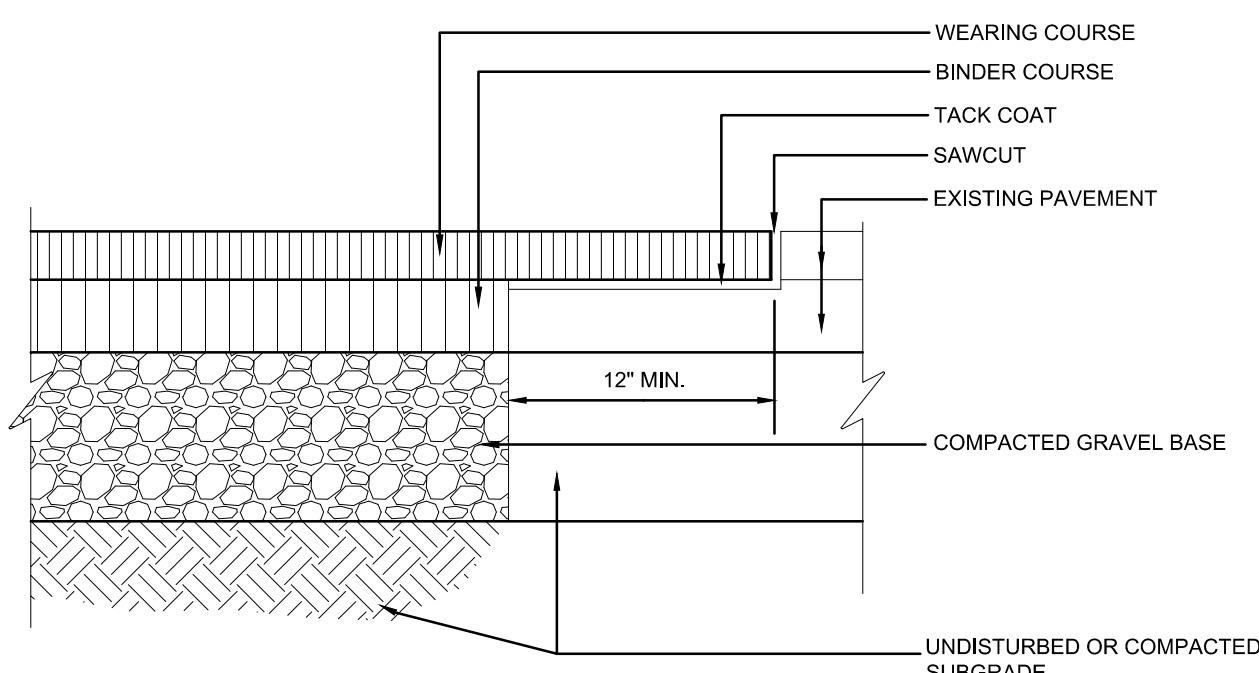
5 **CONCRETE WALKWAY**
N.T.S.



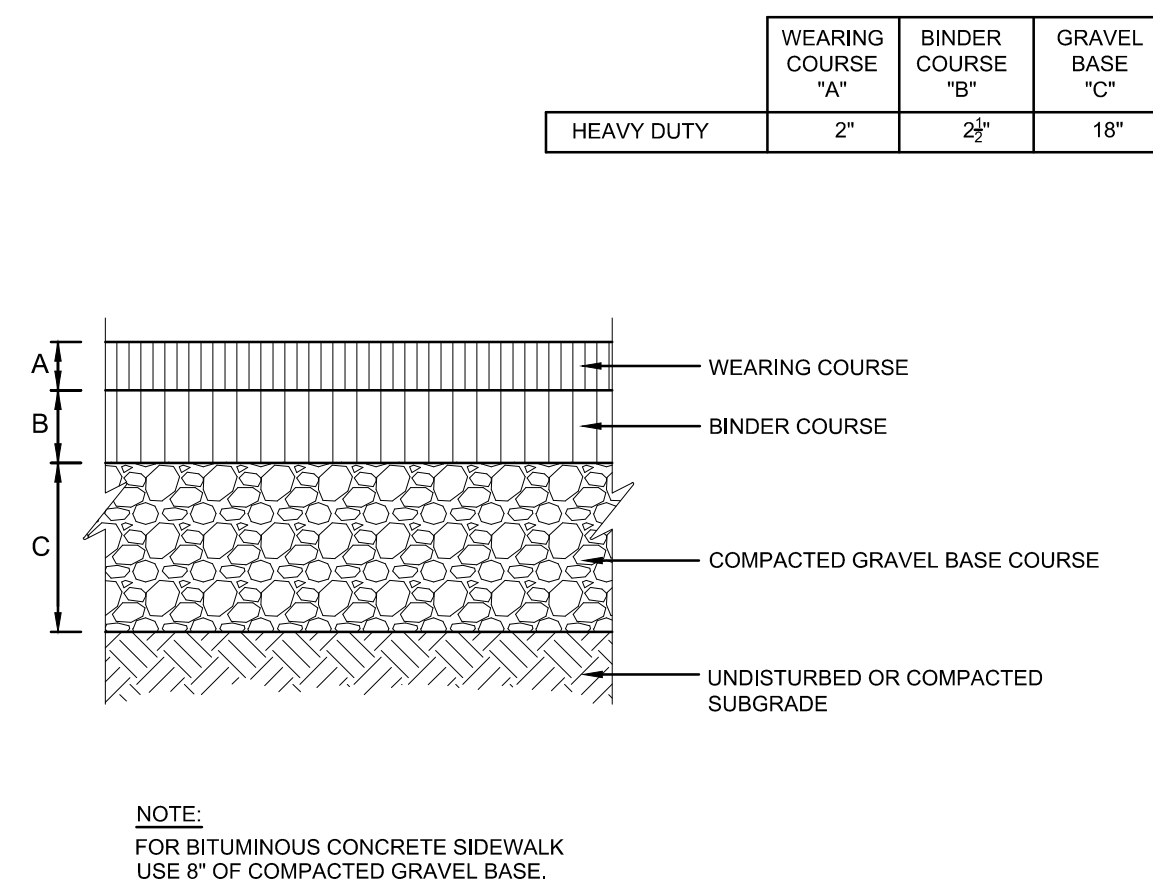
6 **STEEL BOLLARD**
N.T.S.



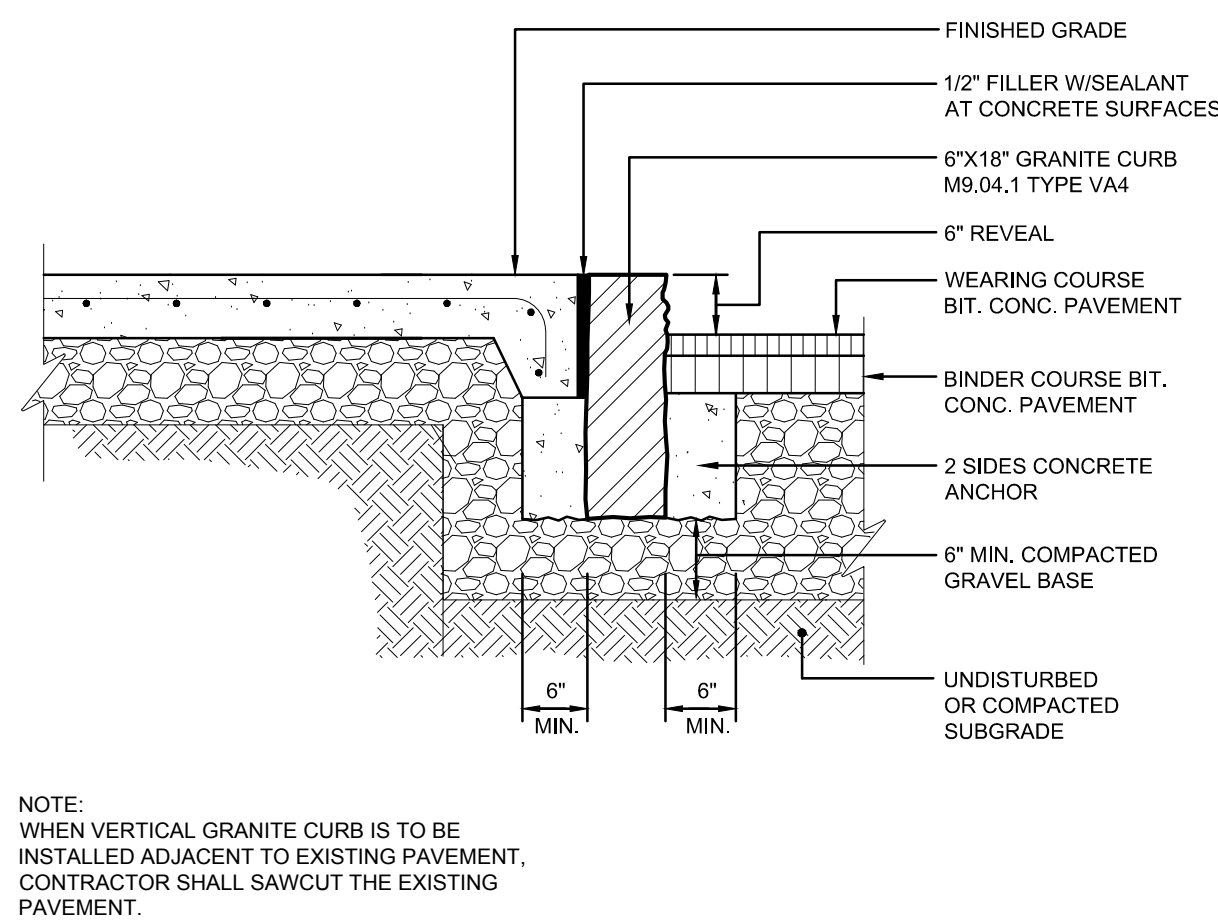
7 **ACCESSIBLE PARKING SPACES**
N.T.S.



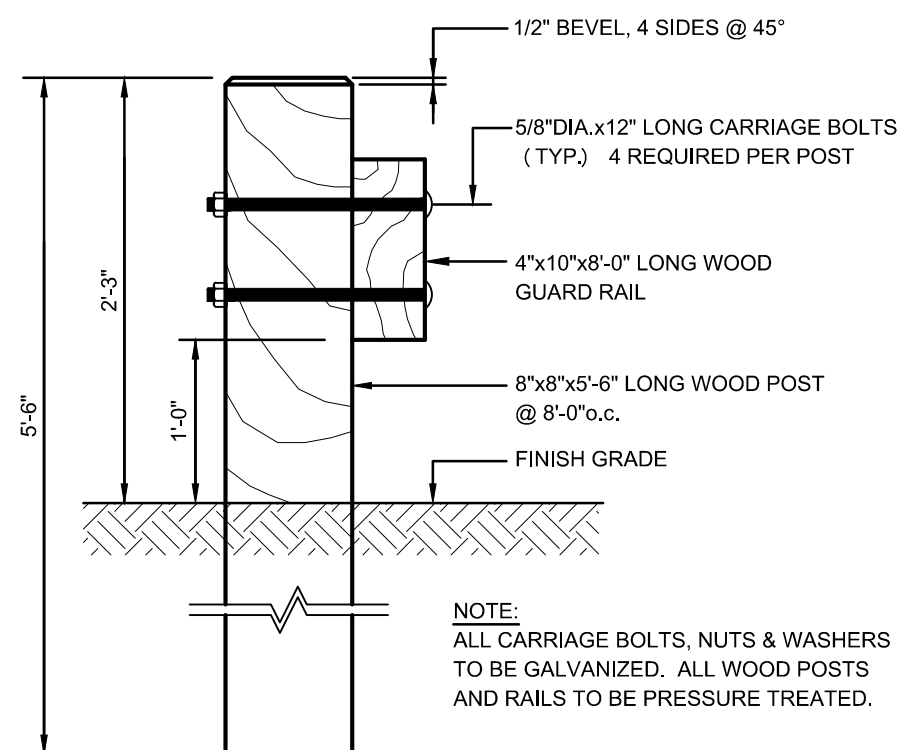
1 **BITUMINOUS CONCRETE AT EXISTING PAVEMENT**
N.T.S.



2 **BITUMINOUS CONCRETE PAVEMENT**
N.T.S.



3 **VERTICAL GRANITE CURB**
N.T.S.



4 **WOOD GUARDRAIL**
N.T.S.



TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
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ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
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1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
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1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
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22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
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CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

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	04/06/19	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT

DATE	
SCALE	NTS
DRAWN BY	CJR
CHECKED BY	PSG
PROJECT NO.	19001

BUILDING:
SHEET TITLE:
DETAILS III

DRAWING NO.
C-503





TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

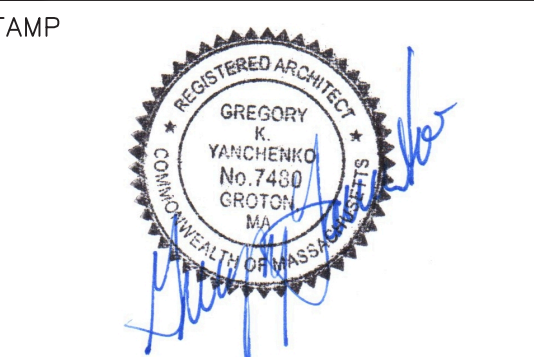
ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
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MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370



REV	DATE	DESCRIPTION
4/16/2019		ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT

DATE	
SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	19001

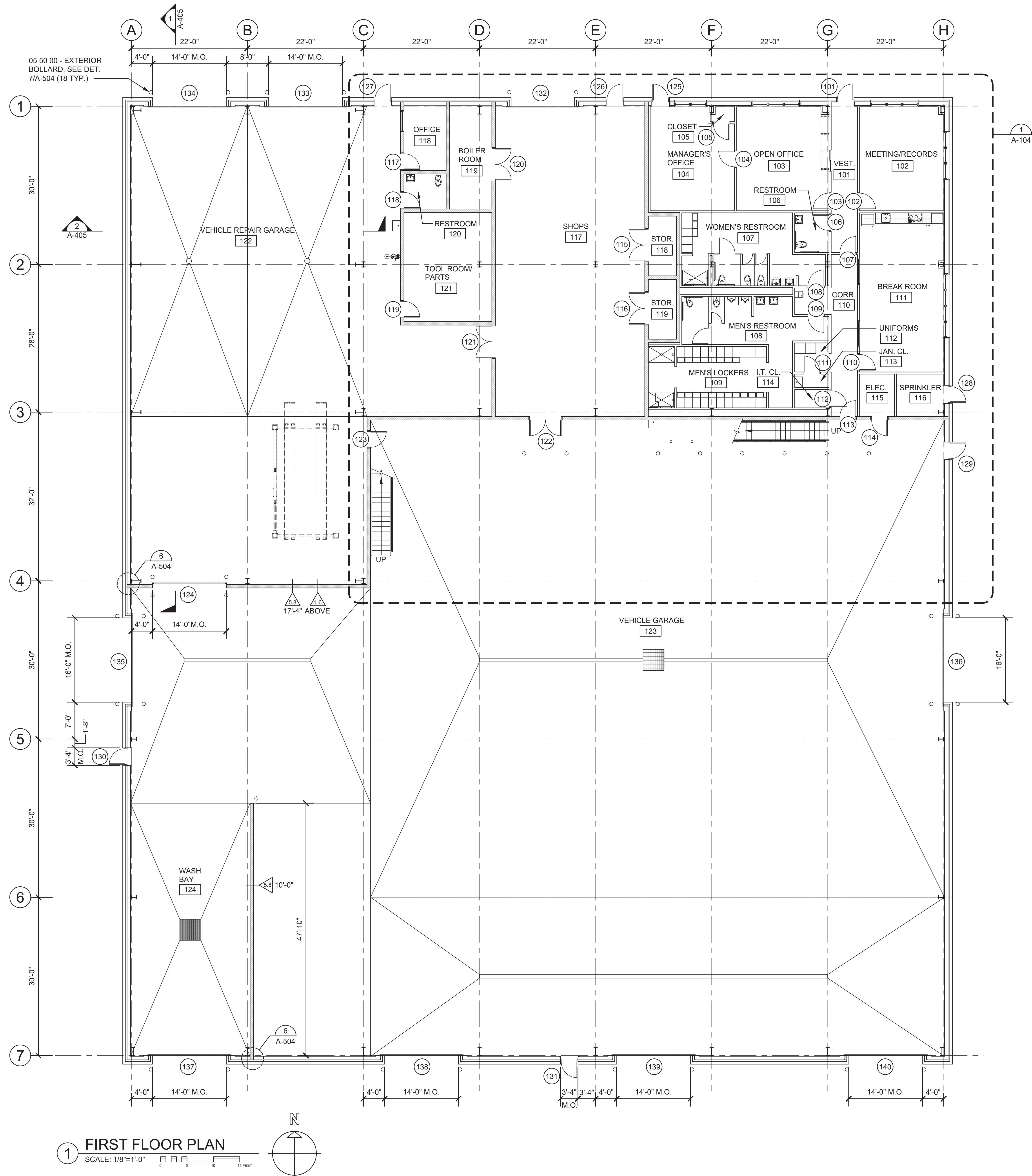
BUILDING:

SHEET TITLE:

FIRST FLOOR PLAN

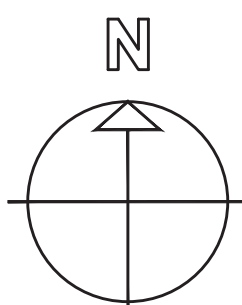
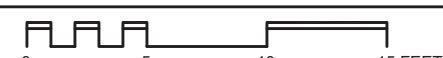
DRAWING NO.

A-101



1 FIRST FLOOR PLAN

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





TOWN OF
MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

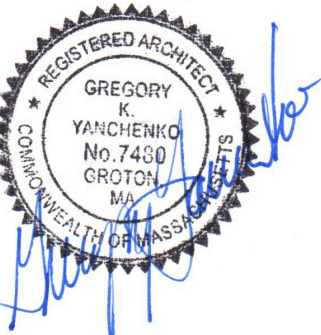
CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
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CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
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MILLBURY, MA 01527

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CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
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4/16/2019	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT
REV	DATE DESCRIPTION

DATE	
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DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	19001

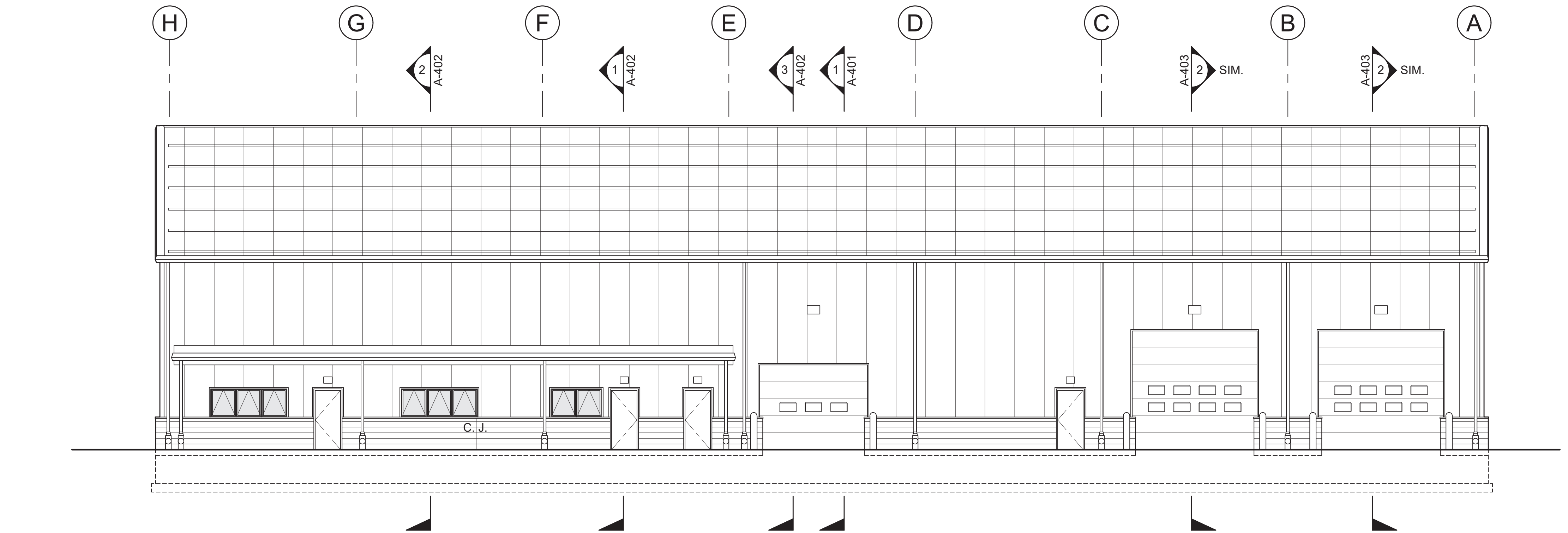
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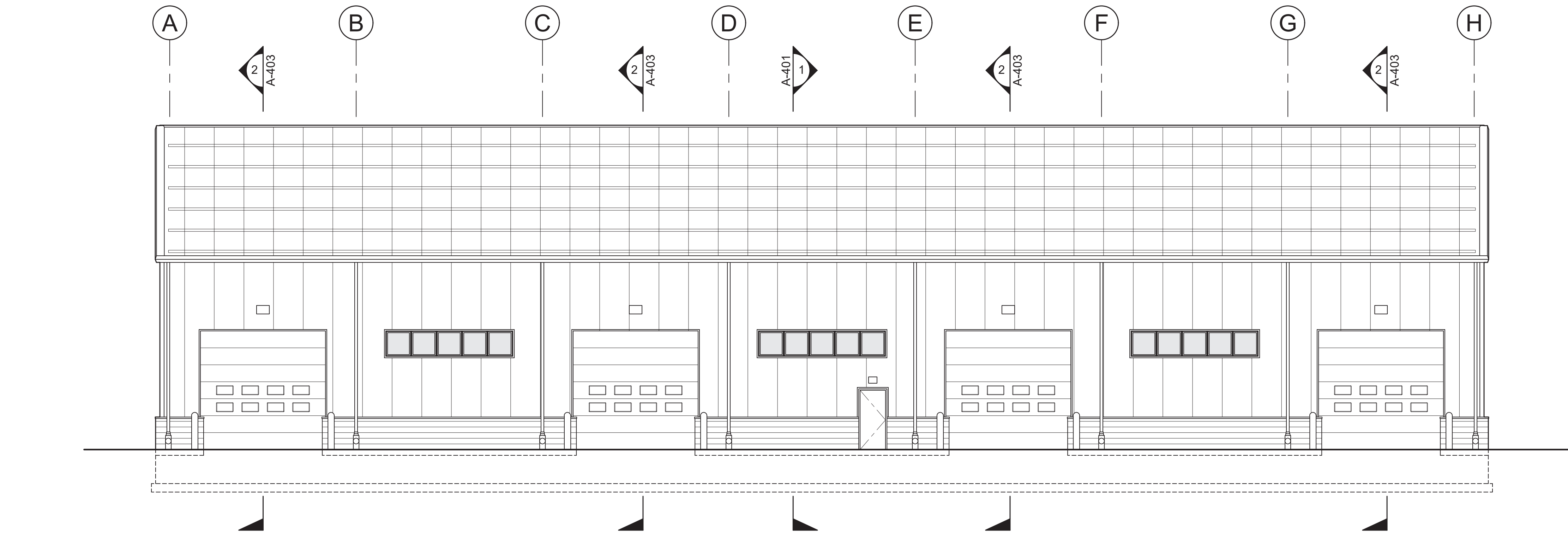
EXTERIOR ELEVATIONS
SHEET 1

DRAWING NO.

A-301



1 NORTH ELEVATION
SCALE: 1/8"=1'-0"
0 5 10 15 FEET



2 SOUTH ELEVATION
SCALE: 1/8"=1'-0"
0 5 10 15 FEET



OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

CIVIL ENGINEER:
HYMMES, MAINI & MCKEE ASSOCIATES
100 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
LYMMES, MAINI & McKEE ASSOCIATES
100 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
EAMAN ENGINEERING CORP.
2 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
79 LIBERTY STREET
ROCKLAND, MA 02370



	4/16/2019	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERM
CV	DATE	DESCRIPTION

DATE	
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CHECKED BY	GKY
PROJECT NO.	19001

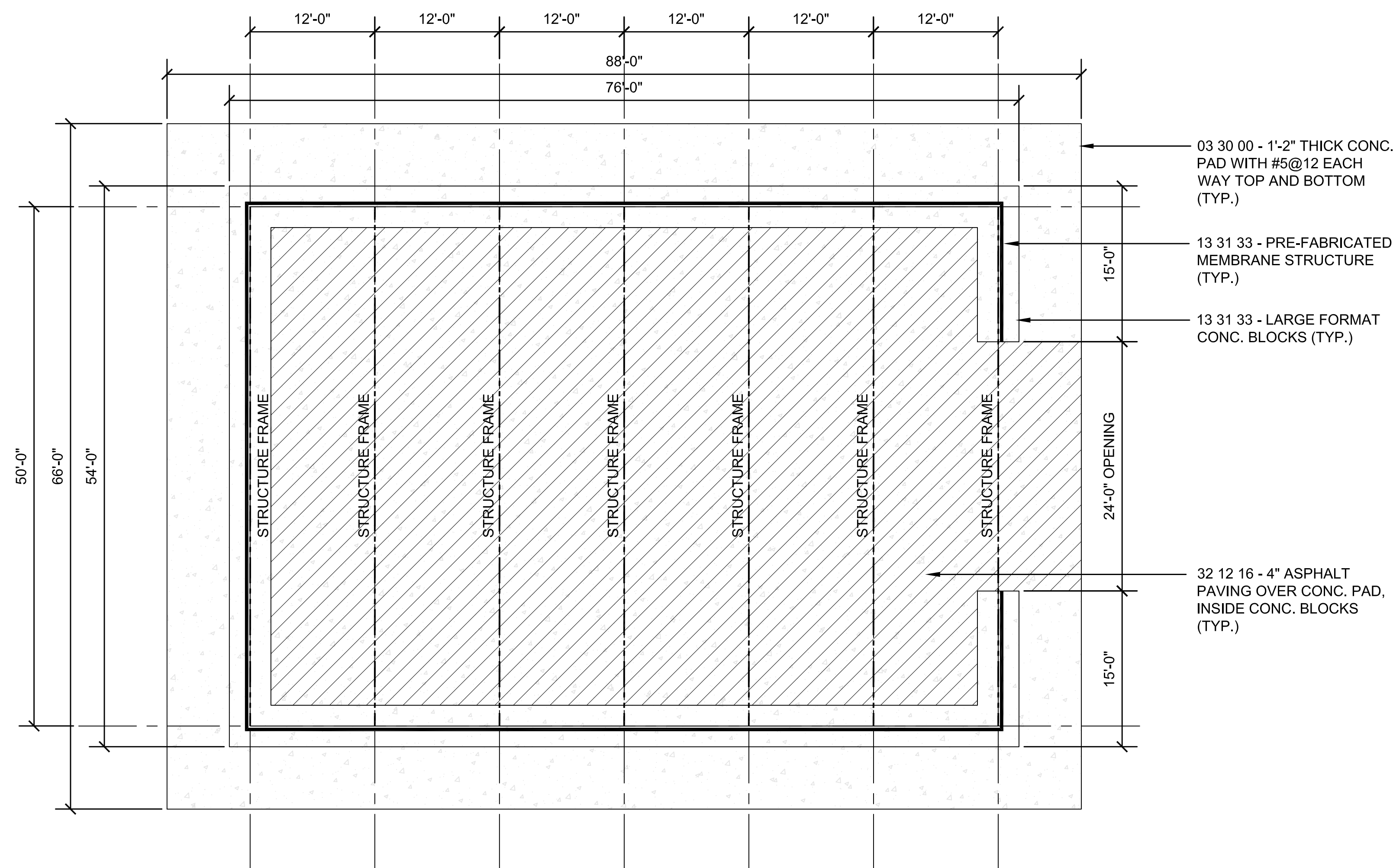
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SHEET TITLE: _____

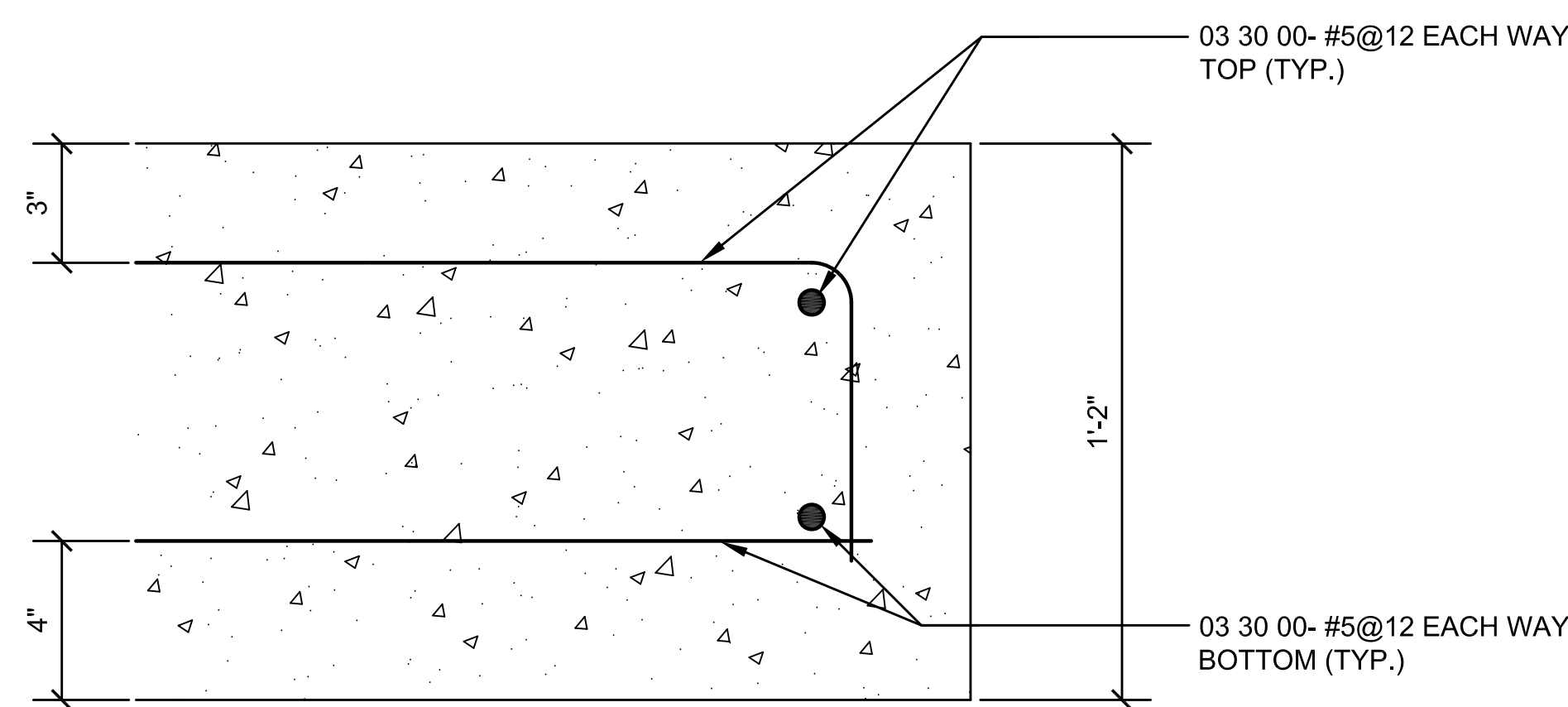
EXTERIOR ELEVATION
SHEET 2

DRAWING NO.

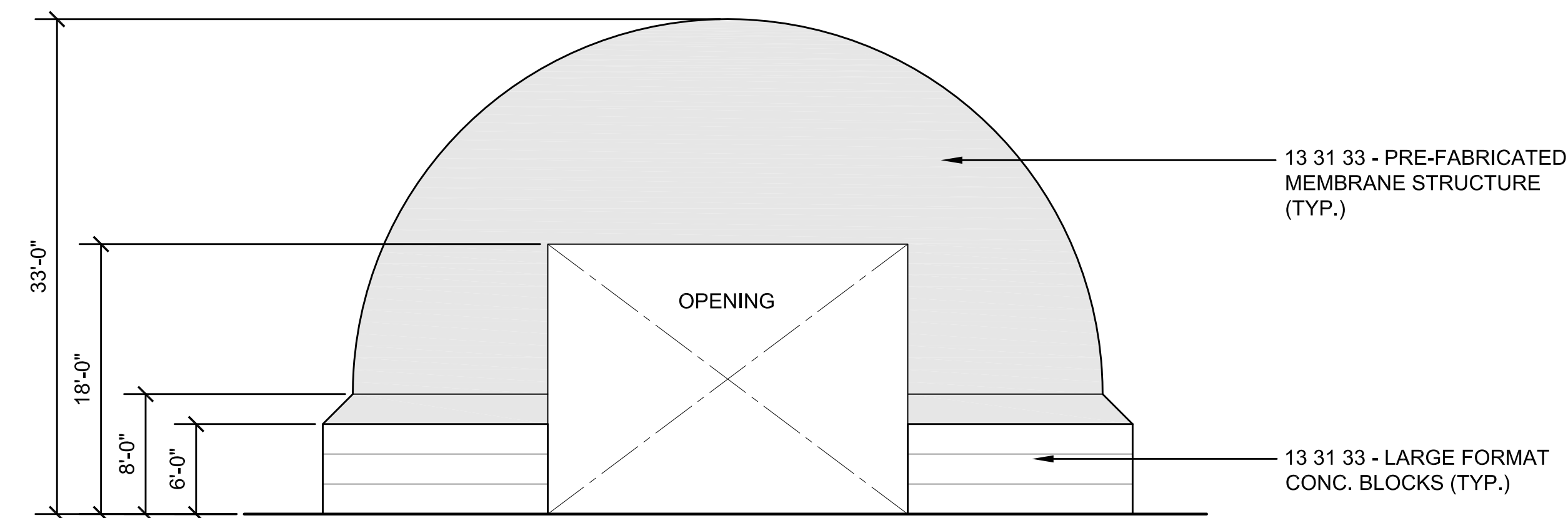
A-302



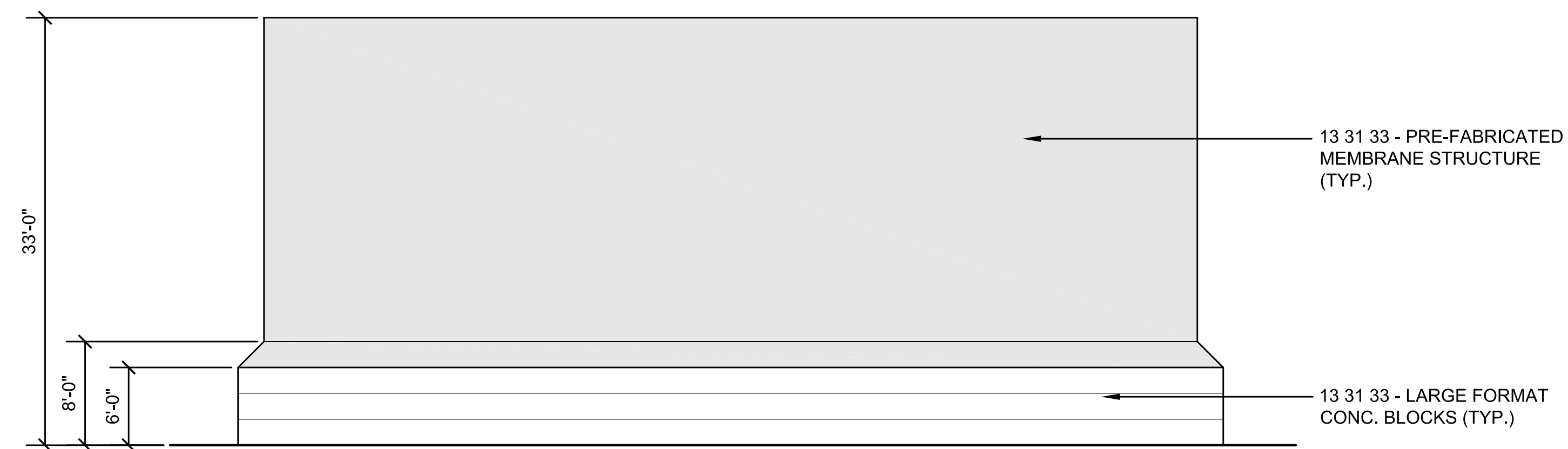
1 SALT STORAGE FLOOR PLAN
SCALE: 1/8"=1'-0"



4 CONC. PAD DETAIL
SCALE: 3"=1'-0"



2 SALT STORAGE EAST ELEVATION
SCALE: 1/8"=1'-0"



3 SALT STORAGE NORTH AND SOUTH ELEVATIONS
SCALE: 1/8"=1'-0"



TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
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ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
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MECHANICAL ENGINEER:
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22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR., ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370



REV	DATE	DESCRIPTION

DATE	4/16/2019
SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	19001


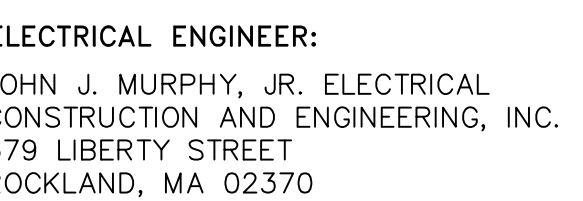
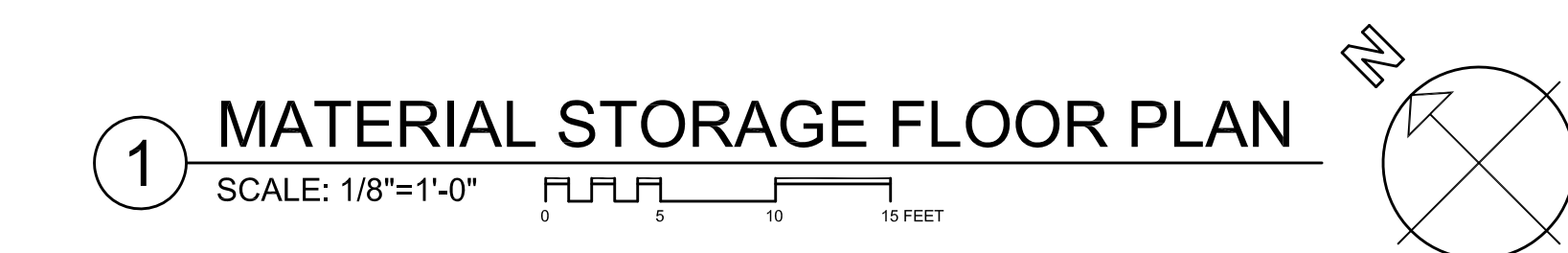
BUILDING:

SHEET TITLE:

SALT STORAGE
STRUCTURE

DRAWING NO.

A-401



	4/16/2019	ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT
CV	DATE	DESCRIPTION

DATE	2/27/19
SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	19001

BUILDING:

SHEET TITLE:

MATERIAL STORAGE STRUCTURE

DRAWING NO.

A-402



TOWN OF MONTAGUE

NEW DPW FACILITY

OWNER:
TOWN OF MONTAGUE
ONE AVENUE A
TURNERS FALLS, MA 01376

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skylands Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
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1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
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MECHANICAL ENGINEER:
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MILLBURY, MA 01527

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CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

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04/16/19 ISSUED FOR SITE PLAN REVIEW & SPECIAL PERMIT

DATE 4-16-2019
SCALE 1"=30'
DRAWN BY CJR
CHECKED BY PSG
PROJECT NO. 19001

BUILDING:
SHEET TITLE:
**LIGHTING PLAN,
SCHEDULES, AND
SPECIFICATIONS**

DRAWING NO.
SL1

VMX LED Specifications



MODEL	OPTICS	LEDs	CURRENT	KELVIN	VOLTAGE	MOUNTING	FRESH	OPTIONS	OPTIONS
VMX-1	T1	4000	3	3K	48V	AM	BT	PC100	PC100
	T2	4000	3	3K	48V	AM	BT	PC100	PC100
	T3	4000	3	3K	48V	AM	BT	PC100	PC100
	T4	4000	3	3K	48V	AM	BT	PC100	PC100
	T5	4000	3	3K	48V	AM	BT	PC100	PC100
	T6	4000	3	3K	48V	AM	BT	PC100	PC100

Features & Specifications

Headline
VMX is a high performance LED lighting fixture designed for use in a wide range of applications. It is available in a variety of sizes and configurations to meet your specific needs.

Mounting & Dimensions
VMX is designed for easy installation and is available in a variety of mounting options. It is available in a variety of sizes and configurations to meet your specific needs.


Thermal Management
VMX is designed with a high performance thermal management system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

Optical System
VMX is designed with a high performance optical system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

Quick-Start
VMX is designed with a high performance quick-start system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

2 SL1, SL2 Specification- Visionaire VMX

VSC LED Specifications



MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FRESH	OPTIONS	OPTIONS
VSC-1	T1	4000	3	3K	48V	AM	BT	PC100	PC100
	T2	4000	3	3K	48V	AM	BT	PC100	PC100
	T3	4000	3	3K	48V	AM	BT	PC100	PC100
	T4	4000	3	3K	48V	AM	BT	PC100	PC100
	T5	4000	3	3K	48V	AM	BT	PC100	PC100
	T6	4000	3	3K	48V	AM	BT	PC100	PC100

Features & Specifications

Headline
VSC is a high performance LED lighting fixture designed for use in a wide range of applications. It is available in a variety of sizes and configurations to meet your specific needs.

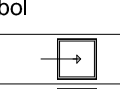
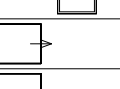

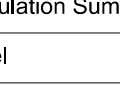
Mounting & Dimensions
VSC is designed for easy installation and is available in a variety of mounting options. It is available in a variety of sizes and configurations to meet your specific needs.

Thermal Management
VSC is designed with a high performance thermal management system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

Optical System
VSC is designed with a high performance optical system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

Quick-Start
VSC is designed with a high performance quick-start system to ensure long life and consistent performance. It is available in a variety of sizes and configurations to meet your specific needs.

3 WM1, WM2 Specification- Visionaire VSC

Luminaire Schedule									
Symbol	Qty	Label	Description	Arrangement	LLF	Lum. Lumens	Lum. Watts	BUG Rating	
	13	SL1	Visionaire # VMX-1-T3-64LC-5-4K-UNV-AM-BK	SINGLE	0.900	14354	107	B3-U0-G3	
	2	SL2	Visionaire # VMX-1-T4-64LC-5-4K-UNV-AM-BK	SINGLE	0.900	13860	107	B3-U0-G3	
	9	WM1	Visionaire # VSC-1-T3-32LC-3-4K-UNV-WM-BK	SINGLE	0.900	4743	37	B1-U0-G1	
	7	WM2	Visionaire # VSC-1-T3-16LC-3-4K-UNV-WM-BK	SINGLE	0.900	2355	18	B1-U0-G1	

Calculation Summary							
Label	Calc-Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Site Points	Illuminance	Fc	0.71	6.5	0.0	N.A.	N.A.
DPW_Overall	Illuminance	Fc	2.47	6.5	0.2	12.35	32.50
Entry Road	Illuminance	Fc	2.39	4.9	0.7	3.41	7.00
Scrapyard	Illuminance	Fc	1.97	5.8	0.4	4.93	14.50

ABBREVIATIONS:
Avg= Average
AFG= Above Finished Grade
CF= Compact Fluorescent
CV= Coefficient of variation
fc= Footcandles
HPS= High Pressure Sodium
LLF= Light Loss Factor
MH= Mounting Height
NTS= Not to Scale
PSMH= Pulse Start Metal Halide
SF= Square foot
W= Watts

NOTES:
A. CALCULATION POINTS INDICATED ARE BASED ON MAINTAINED FOOTCANDLE (FC) LEVELS AFTER A LIGHT LOSS FACTOR (LLF) IS APPLIED TO FIXTURE. REFER TO SCHEDULES FOR LLF AND LUMEN INFORMATION.
B. REFER TO PLAN FOR FIXTURE MOUNTING HEIGHTS.
C. CALCULATION POINTS TAKEN AT GRADE.