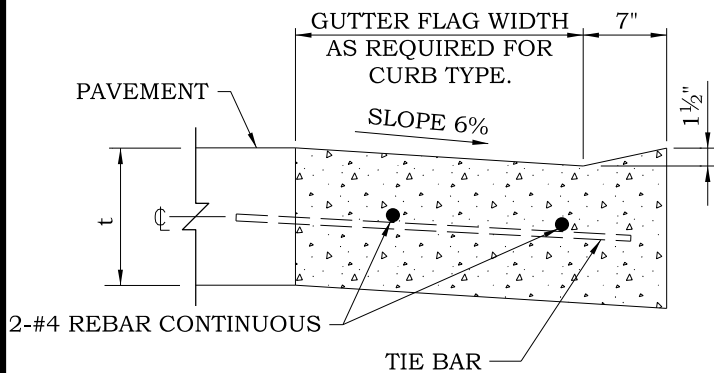
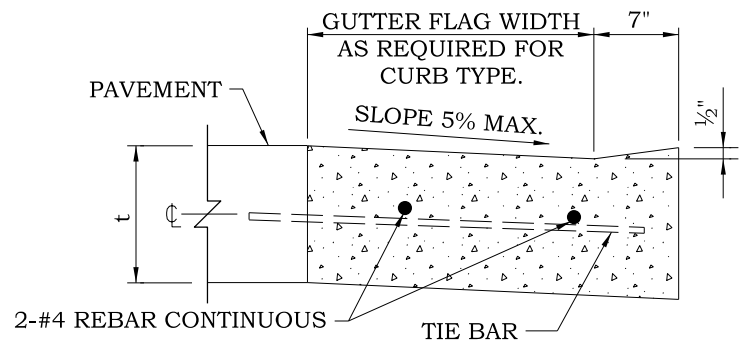


INDEX TO STANDARD ENGINEERING DETAILS
VILLAGE OF HUNTLEY

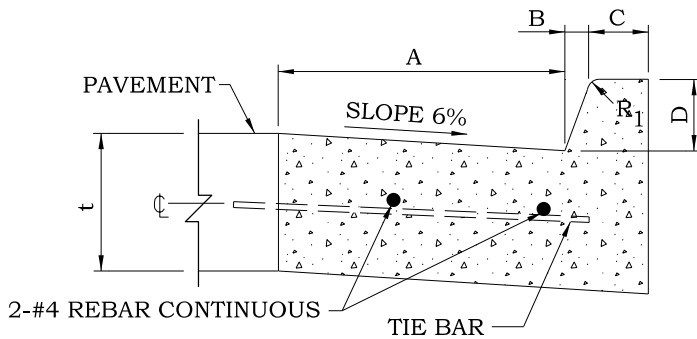
| Detail | Description | Detail | Description |
|---------------|--|---------------|--|
| DRN - 1 | Combination Concrete Curb & Gutter | PVT - 5 | Minimum Pavement Requirements Roadways |
| DRN - 2 | Modified Rolled Curb | PVT - 6 | Minimum Pavement Requirements Parking Lots |
| DRN - 3 | Concrete Curb & Gutter Notes | SAN - 1 | Sanitary Manhole |
| DRN - 4 | Storm Manhole Type A | SAN - 2 | Sanitary Monitoring Manhole |
| DRN - 5 | Catch Basin Type A | SAN - 3 | Sanitary Sewer Connection to Existing Manhole |
| DRN - 6 | Catch Basin Type C | SAN - 4 | Sanitary Service Riser |
| DRN - 7 | Inlet Type A | SAN - 5 | Sanitary Sewer Saddle Connection |
| DRN - 8 | Inlet Type B | SESC - 1 | Silt Fence |
| DRN - 9 | Rip Rap | SESC - 2 | Stabilized Construction Entrance |
| DRN - 10 | Storm Water Restrictor Structure | SESC - 3 | Temporary Topsoil Stockpile |
| DRN - 11 | Subsurface Drain Tile & Structure Connection | SESC - 4 | Temporary Perforated Water Quality Riser |
| DRN - 12 | Sump Pump Connection | SESC - 5 | Area Inlet Protection |
| LGHT - 1 | Lighting Controller Cabinet and Foundation | SESC - 6 | Illinois Urban Manual Erosion Control Systems |
| LGHT - 2A | Lighting Controller Wiring | SGN - 1 | Typical Sign Placement at Subdivision Entrance |
| LGHT - 2B | Lighting Controller Component Schedule | SGN - 2 | Water Restriction Signage |
| LGHT - 3 | Ground Field | UTL - 1 | Typical Trench Cross Sections |
| LGHT - 4 | Electric Service Installation | UTL - 2 | Sewer and Water Separation Requirements |
| LGHT - 5 | Light Pole Foundation | UTL - 3 | Manhole Cover |
| LGHT - 6 | Light Pole Handhole Wiring Diagram | UTL - 4 | Casing Pipe |
| LGHT - 7 | Splicing Electric Cable | UTL - 5 | Common Water/Sanitary Service Trench |
| LGHT - 8 | Residential Roadway LED Lighting Unit | WAT - 1 | Fire Hydrant Install |
| LGHT - 9 | Collector Roadway LED Lighting Unit | WAT - 2 | Fire Hydrant Parallel to Main |
| LGHT - 10 | Arterial Roadway Light Pole | WAT - 3 | Valve Vault |
| LGHT - 11 | Electric Conduit Installation | WAT - 4 | Valve Box Installation |
| LGHT - 12 | Polymer Concrete Handhole | WAT - 5 | Water Service Installation |
| PVT - 1 | P.C. Concrete Residential Driveway Approach | WAT - 6 | Water Main Pressure Connection |
| PVT - 2 | HMA Residential Driveway Approach | WAT - 7 | Water Main Thrust Blocking |
| PVT - 3 | Non-Residential Driveway Approach | WAT - 8 | Irrigation Service |
| PVT - 4 | Concrete Sidewalk | WAT - 9 | Water Valve Jumper |



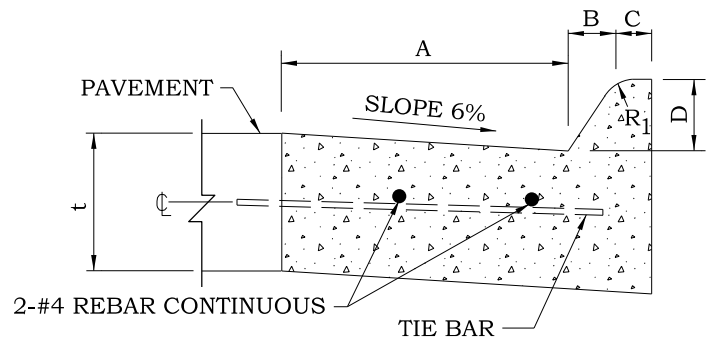
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



BARRIER CURB



MOUNTABLE CURB

| TABLE OF DIMENSIONS BARRIER CURB (INCHES) | | | | | |
|--|----|---|---|---|----------------|
| TYPE | A | B | C | D | R ₁ |
| B-6.06 * | 6 | 1 | 6 | 6 | 1 |
| B-6.12 | 12 | 1 | 6 | 6 | 1 |
| B-6.18 | 18 | 1 | 6 | 6 | 1 |
| B-6.24 | 24 | 1 | 6 | 6 | 1 |
| B-9.12 | 12 | 2 | 5 | 9 | 1 |
| B-9.18 | 18 | 2 | 5 | 9 | 1 |
| B-9.24 | 24 | 2 | 5 | 9 | 1 |

* For corner islands only.

| TABLE OF DIMENSIONS MOUNTABLE CURB (INCHES) | | | | | | |
|--|----|---|---|---|----------------|----------------|
| TYPE | A | B | C | D | R ₁ | R ₂ |
| M-2.06 | 6 | 2 | 4 | 2 | 3 | 2 |
| M-2.12 | 12 | 2 | 4 | 2 | 3 | 2 |
| M-4.06 | 6 | 4 | 3 | 4 | 3 | NA |
| M-4.12 | 12 | 4 | 3 | 4 | 3 | NA |
| M-4.18 | 18 | 4 | 3 | 4 | 3 | NA |
| M-4.24 | 24 | 4 | 3 | 4 | 3 | NA |
| M-6.06 | 6 | 6 | 2 | 6 | 2 | NA |
| M-6.12 | 12 | 6 | 2 | 6 | 2 | NA |
| M-6.18 | 18 | 6 | 2 | 6 | 2 | NA |
| M-6.24 | 24 | 6 | 2 | 6 | 2 | NA |

NOTES:

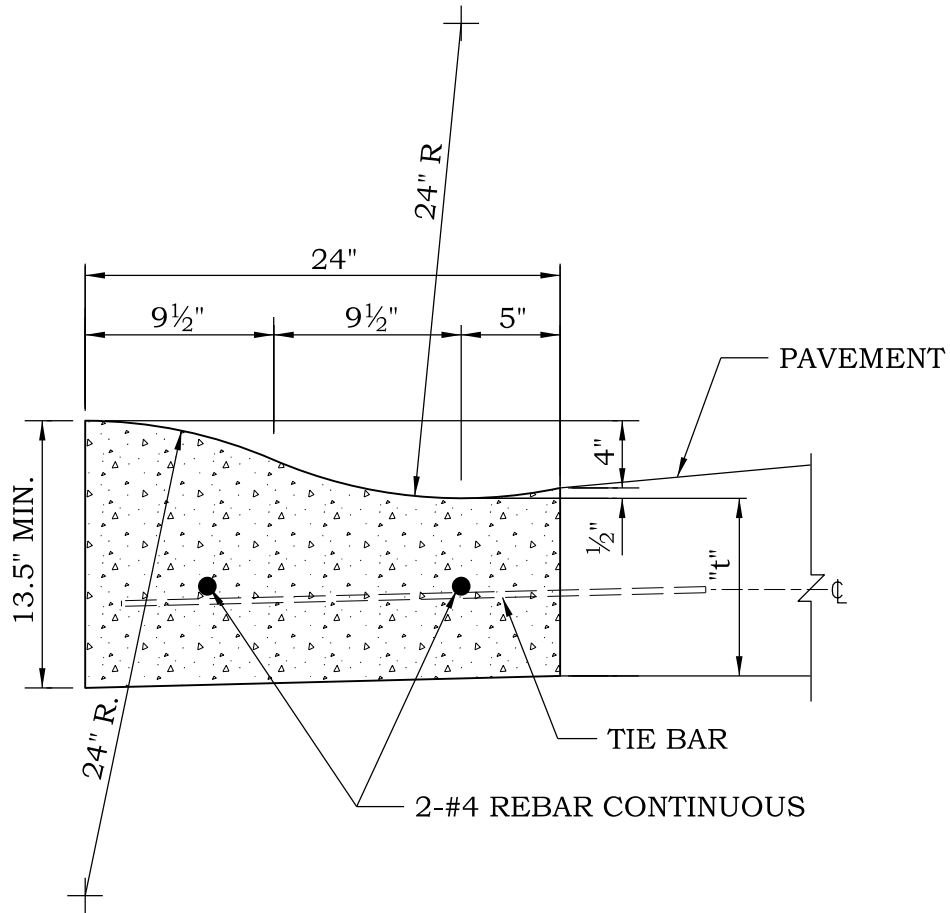
1. SEE DETAIL DRN-3 FOR NOTES.



VILLAGE OF HUNTLEY
10987 MAIN STREET
HUNTLEY, IL 60142
(847) 515-5200

**COMBINATION CONCRETE
CURB AND GUTTER**

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-1 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



NOTES:

1. SEE DETAIL DRN-3 FOR NOTES.



VILLAGE OF HUNTLEY

10987 MAIN STREET
HUNTLEY, IL 60142
(847) 515-5200

MODIFIED ROLL CURB

SCALE:

NTS

DRAWN/CHECKED

CBBEL/TPF

DRAWING NUMBER

DATE:

1/1/2016

REVISED:

1/1/2016

DRN-2

NOTES:

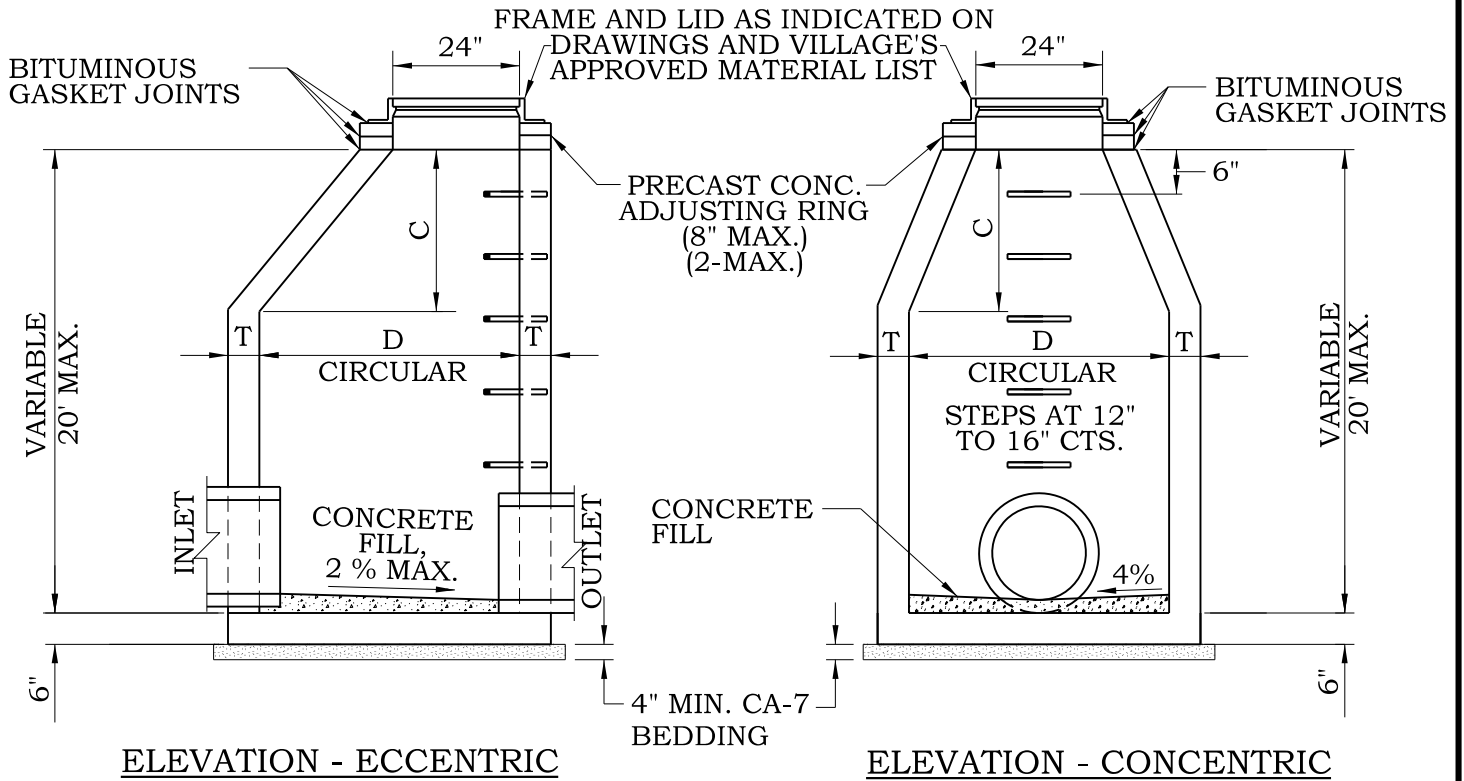
1. **THICKNESS - T** - THICKNESS OF PAVEMENT, MINIMUM 9". THICKNESS SHALL MATCH THE TOTAL HMA OR PCC PAVEMENT THICKNESS WHEN TOTAL PAVEMENT THICKNESS IS GREATER THAN 9".
2. **DRAINAGE OPENINGS** - AT ALL LOCATIONS WHERE METAL CASTINGS ARE INCORPORATED IN THE CURB AND GUTTER, A 1" THICK PREFORMED JOINT FILLER, CONFORMING TO THE CROSS SECTIONS OF THE CURB AND GUTTER SHALL BE INSTALLED A DISTANCE OF 5 FT. FROM EACH SIDE OF THE METAL CASTING. WHEN THE WIDTH OF THE METAL CASTING IS LESS THAN THE WIDTH OF THE CURB AND GUTTER, 2 - NO. 4 EPOXY COATED REBARS (L = 12" + CASTING LENGTH + 12") SHALL BE INCORPORATED IN THE CONTINUOUS PORTION OF THE CONCRETE CURB AND GUTTER.
3. **JOINTS** - IN ADDITION TO THE REQUIREMENTS OF ARTICLE 606 OF THE STANDARD SPECIFICATIONS, JOINTS SHALL BE CONSTRUCTED AS FOLLOWS.
 - A. CONTRACTION JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN THE CURB AND GUTTER IN PROLONGATION WITH JOINTS OF ADJACENT P.C.C. PAVEMENT OR BASE COURSE.
 - B. WHEN CURB AND GUTTER IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, A 1" THICK PREFORMED JOINT FILLER, CONFORMING TO THE CROSS SECTIONS OF THE CURB AND GUTTER SHALL BE INSTALLED AT POINTS OF CURVATURE FOR SHORT RADIUS CURVES.
 - C. ALL EXPANSION JOINTS SHALL BE PROVIDED WITH TWO 1 1/4" DIA. X 18" COATED SMOOTH DOWEL BAR CONFORMING TO ARTICLE 1006.11B OF THE STANDARD SPECIFICATIONS. THE DOWEL BAR SHALL BE FITTED WITH A CAP HAVING A PINCHED STOP THAT WILL PROVIDE 1" OF EXPANSION.
 - D. CONSTRUCTION JOINT SPACING 12' MAX.
 - E. EXPANSION JOINT SPACING 84' MAX.
4. **REINFORCEMENT** - ALL CURB AND GUTTER SHALL CONTAIN 2-#4 REBAR CONTINUOUS THROUGHOUT. **RIGID PAVEMENT ONLY:** #6 TIE BARS SHALL BE PLACED AT 24" CENTERS. TIE BAR MINIMUM CLEARANCE FROM BACK OF CURB SHALL BE 2".
5. AN IDOT APPROVED CURING COMPOUND MUST BE PLACED ON THE FINISHED CONCRETE PER IDOT STANDARD SPECIFICATIONS 1020.13 AND 1022.01 (IDOT APPROVED PAILS OR DRUMS SHALL BE INSPECTED/WITNESSED BY THE VILLAGE OF HUNTLEY OR VILLAGE REPRESENTATIVE). NON IDOT APPROVED CURING/SEALING PRODUCTS WILL BE PROHIBITED.
6. ALL CURB/GUTTER SHALL BE INSTALLED ON A MINIMUM 4" COMPACTED CA-6 SUBBASE THAT SHALL EXTEND A MINIMUM OF 6" FROM THE BACK OF CURB UNLESS OTHERWISE INDICATED.
7. CURB SHALL BE STAMPED WITH A "W" INDICATING THE LOCATION OF WATER SERVICES AND STAMPED WITH A "S" INDICATING THE LOCATION OF SANITARY SEWER SERVICES.
8. ALL WORK AND MATERIAL SHALL CONFORM TO IDOT STANDARD SPECIFICATION ART 606 UNLESS OTHERWISE SPECIFIED.



VILLAGE OF HUNTLEY
 10987 MAIN STREET
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CONCRETE CURB AND GUTTER NOTES

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-3 |
| DATE: 1/1/2016 | REVISED: 10/21/2021 | |



| MATERIALS FOR WALLS | D | C* | T (min.) |
|--|-------|-------|-------------|
| PRECAST REINFORCED CONCRETE SECTION | 4'-0" | 2'-6" | 4" |
| | 5'-0" | 3'-9" | 5" |
| | 6'-0" | 5'-0" | 6" |

* DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".

NOTES

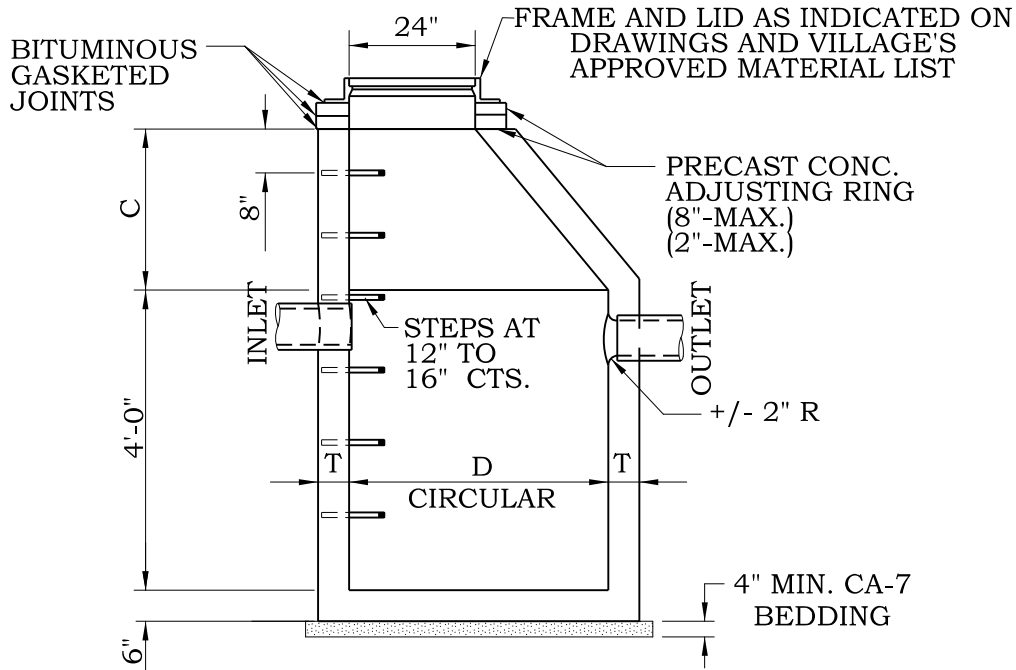
1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING. FLAT TOP SLABS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. USE 4'-0" DIAMETER FOR SEWER SIZES THRU 21", 5'-0" DIAMETER FOR SEWER SIZES 24" THRU 30", 6'-0" DIAMETER FOR SEWER SIZES GREATER THAN 30", UNLESS OTHERWISE NOTED.
- 3A. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE STRUCTURES RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES LOCATED OUTSIDE OF LIMITS OF PAVED SURFACES.
- 3B. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN CURB LINES.
4. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIAL SHALL CONFORM TO IDOT STD. SPEC. ART. 602.
5. REMOVE TOP TWO MANHOLE STEPS PRIOR TO FINAL INSPECTION.



VILLAGE OF HUNTLEY
 10987 MAIN STREET
 HUNTLEY, IL 60142
 (847) 515-5200

STORM MANHOLE TYPE A

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-4 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



ELEVATION
(STANDARD OUTLET)

| MATERIALS FOR WALLS | D | C* | T (min.) |
|--|-------|-------|-------------|
| PRECAST REINFORCED CONCRETE SECTION | 4'-0" | 2'-6" | 4" |
| | 5'-0" | 3'-9" | 5" |
| | 6'-0" | 5'-0" | 6" |

* DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".

NOTES

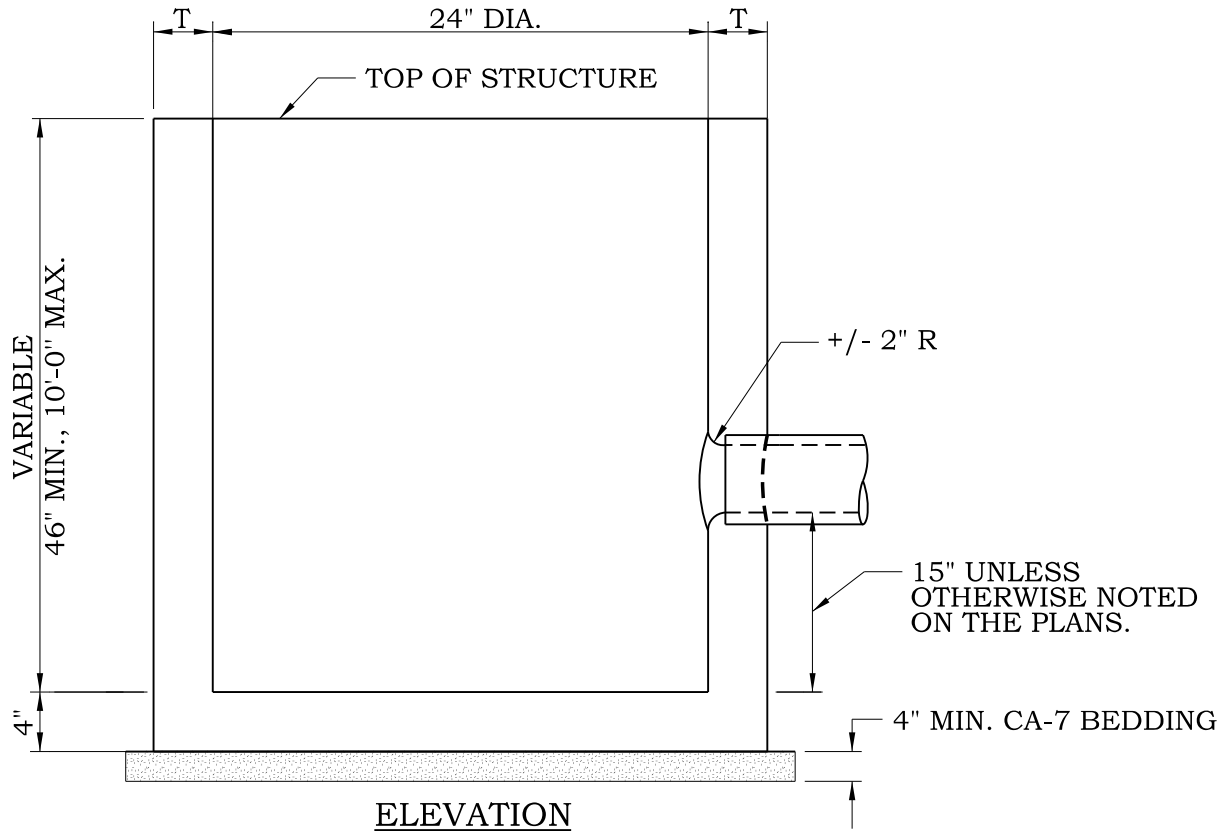
1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING. FLAT TOP SLABS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. USE 4'-0" DIAMETER FOR SEWER SIZES THRU 21", 5'-0" DIAMETER FOR SEWER SIZES 24" THRU 30", 6'-0" DIAMETER FOR SEWER SIZES GREATER THAN 30", UNLESS OTHERWISE NOTED.
- 3A. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACE. THE MANHOLE RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES LOCATED OUTSIDE THE LIMITS OF PAVED SURFACES.
- 3B. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES LOCATED WITHIN CURB LINES.
4. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STD. SPEC. ART. 602.
5. REMOVE TOP TWO MANHOLE STEPS PRIOR TO FINAL INSPECTION.



VILLAGE OF HUNTLEY
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CATCH BASIN TYPE A

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-5 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



| MATERIALS FOR WALLS | T (min.) |
|--|-------------|
| PRECAST REINFORCED CONCRETE SECTION | 3" |

NOTES

1. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STD. SPEC. ART. 602.
2. BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.
- 3A. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE STRUCTURES RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES LOCATED OUTSIDE LIMITS OF PAVED SURFACES.
- 3B. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES LOCATED WITHIN CURB LINES.

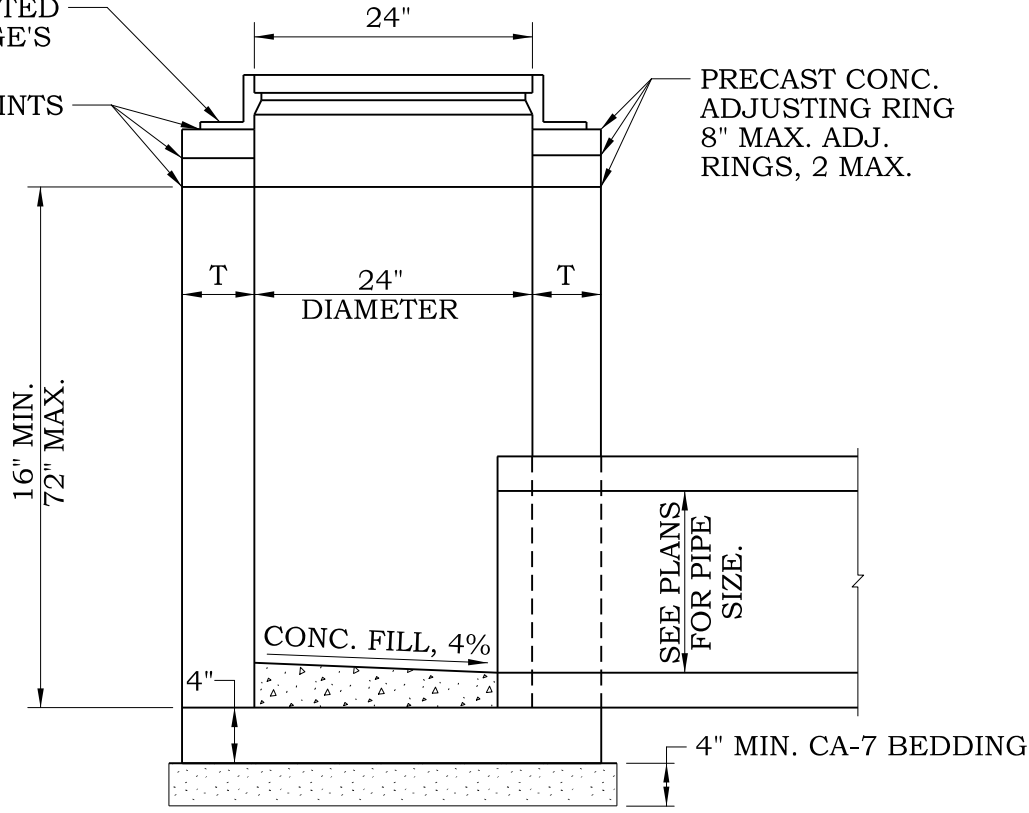


VILLAGE OF HUNTLEY
 10987 MAIN STREET
 HUNTLEY, IL 60142
 (847) 515-5200

CATCH BASIN TYPE C

| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
|----------|---------------|----------------|
| NTS | CBBEL/TPF | DRN-6 |
| DATE: | REVISED: | |
| 1/1/2016 | 3/8/2021 | |

FRAME AND LID AS INDICATED
ON DRAWINGS AND VILLAGE'S
APPROVED MATERIAL LIST
BITUMINOUS GASKET JOINTS



PRECAST CONC.
ADJUSTING RING
8" MAX. ADJ.
RINGS, 2 MAX.

ELEVATION

| | |
|-------------------------------------|----|
| MATERIALS FOR WALLS | T |
| PRECAST REINFORCED CONCRETE SECTION | 3" |

NOTES

1. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STD. SPEC. ART. 602
- 2A. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE INLET RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES LOCATED OUTSIDE LIMITS OF PAVED SURFACES.
- 2B. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN CURB LINES.
3. BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.

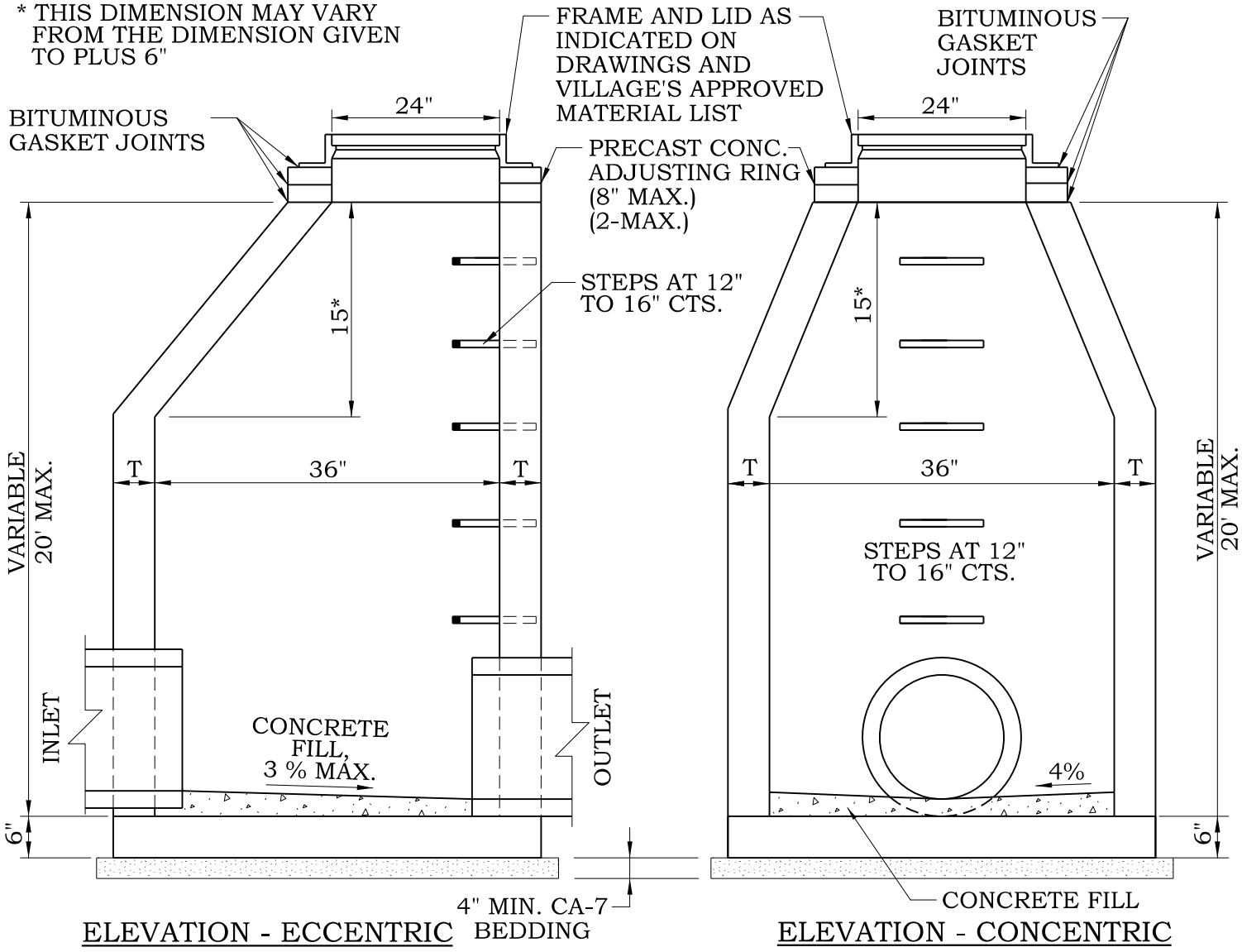


VILLAGE OF HUNTLEY
10987 MAIN STREET
HUNTLEY, IL 60142
(847) 515-5200

INLET TYPE A

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-7 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |

* THIS DIMENSION MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6"



ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

| | |
|-------------------------------------|----|
| MATERIALS FOR WALLS | T |
| PRECAST REINFORCED CONCRETE SECTION | 3" |

NOTES

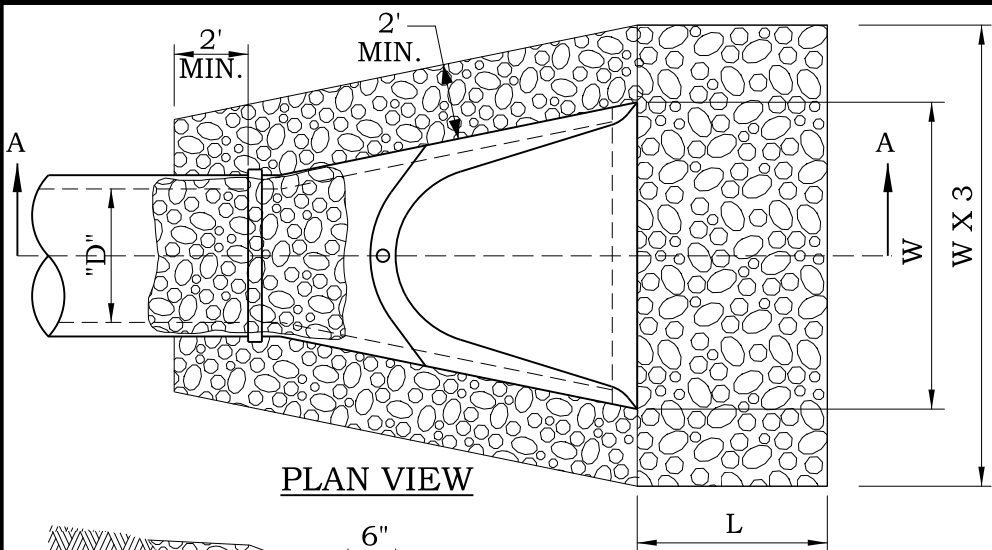
1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING. FLAT TOP SLABS PERMITTED ONLY FOR INLETS TOO SHALLOW FOR CONES.
- 2A. EXTERNAL CHIMNEY SEALS PER VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE INLET RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES LOCATED OUTSIDE LIMITS OF PAVED SURFACES.
- 2B. EXTERNAL CHIMNEY SEALS PER VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN CURB LINES.
3. BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.
4. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STD. SPEC. ART. 602.
5. REMOVE TOP TWO INLET STEPS PRIOR TO FINAL INSPECTION.



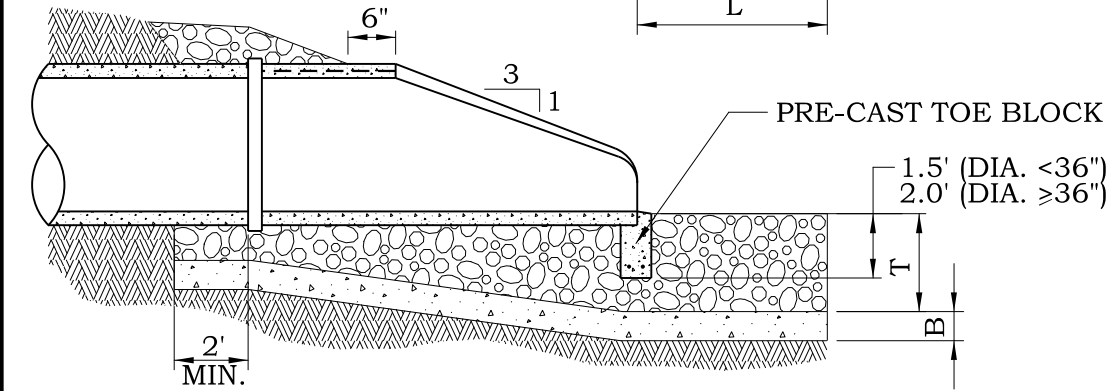
VILLAGE OF HUNTLEY
 10987 MAIN STREET
 HUNTLEY, IL 60142
 (847) 515-5200

INLET TYPE B

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-8 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



PLAN VIEW



SECTION A-A

NOTES

1. PRECAST CONCRETE FLARED END SECTIONS AND TOE BLOCK SHALL CONFORM TO IDOT STANDARD DETAILS 542301 AND 542306.
2. RIP RAP SHALL CONFORM TO SECTION 281 OF THE STANDARD SPECIFICATIONS. INSTALL FABRIC UNDER STONE.

| LOW VELOCITY (5<fps) | | | | HIGH VELOCITY (5-10 fps) | | | |
|----------------------|-----------------------------|-----------------|---------------------------|--------------------------|-----------------------------|-----------------|---------------------------|
| D | T | L | B | D | T | L | B |
| PIPE SIZE IN. | ROCK CLASS (MIN. THICKNESS) | LENGTH OF APRON | BEDDING CLASS (THICKNESS) | PIPE SIZE IN. | ROCK CLASS (MIN. THICKNESS) | LENGTH OF APRON | BEDDING CLASS (THICKNESS) |
| 10" | RR-2 (6") | 10' | - | 10" | RR-2 (6") | 10' | CA-1 (6") |
| 12" | RR-3 (15") | 12' | - | 12" | RR-3 (15") | 15' | CA-1 (6") |
| 15" | RR-3 (15") | 13' | - | 15" | RR-3 (15") | 15' | CA-1 (6") |
| 18" | RR-3 (15") | 14' | - | 18" | RR-4 (16") | 16' | CA-1 (6") |
| 21" | RR-3 (15") | 15' | - | 21" | RR-4 (16") | 18' | CA-1 (6") |
| 24" | RR-3 (15") | 16' | - | 24" | RR-4 (16") | 20' | CA-1 (6") |
| 27" | RR-3 (15") | 17' | - | 27" | RR-4 (16") | 21' | CA-1 (6") |
| 30" | RR-4 (16") | 18' | - | 30" | RR-4 (16") | 22' | CA-1 (6") |
| 33" | RR-4 (16") | 19' | CA-1 (6") | 33" | RR-5 (22") | 23' | CA-1 (8") |
| 36" | RR-4 (16") | 20' | CA-1 (6") | 36" | RR-5 (22") | 24' | CA-1 (8") |
| 42" | RR-4 (16") | 22' | CA-1 (6") | 42" | RR-6 (26") | 26' | CA-1 (10") |
| 48" | RR-4 (16") | 24' | CA-1 (6") | 48" | RR-6 (26") | 28' | CA-1 (10") |

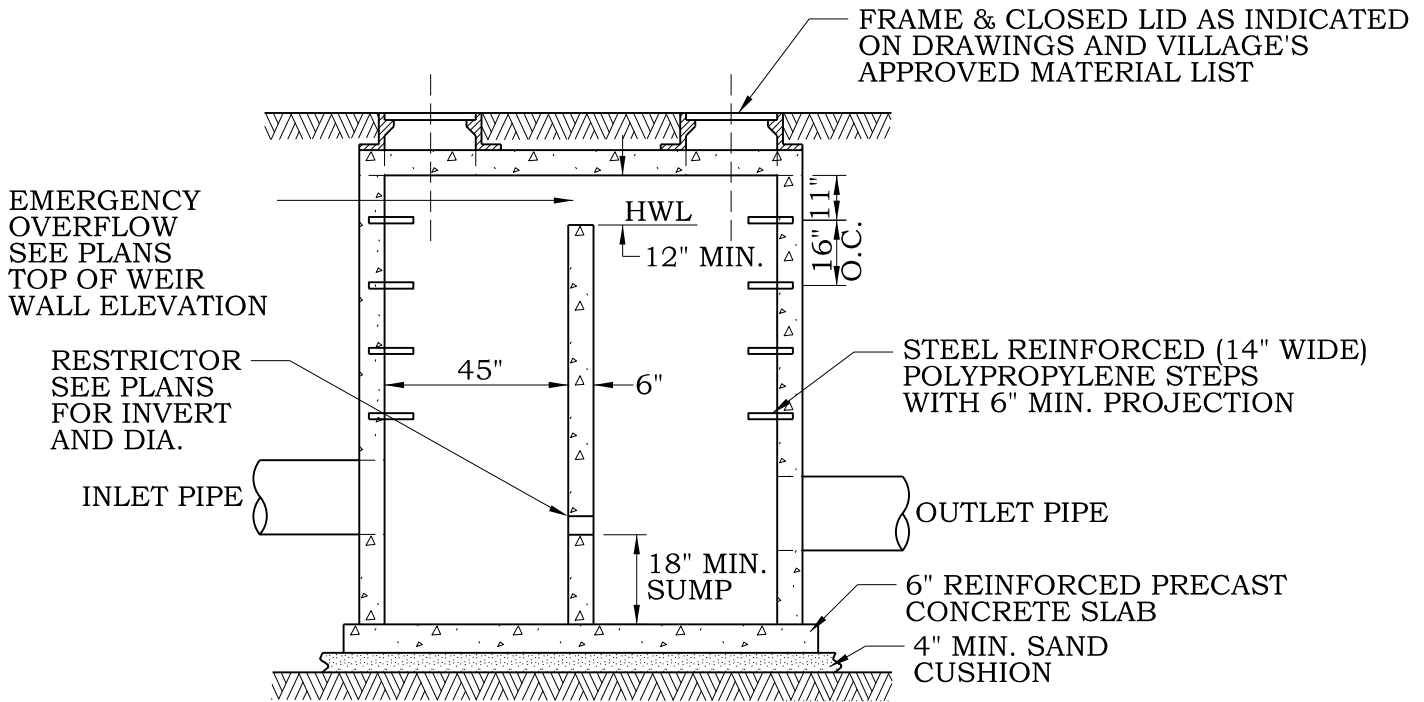
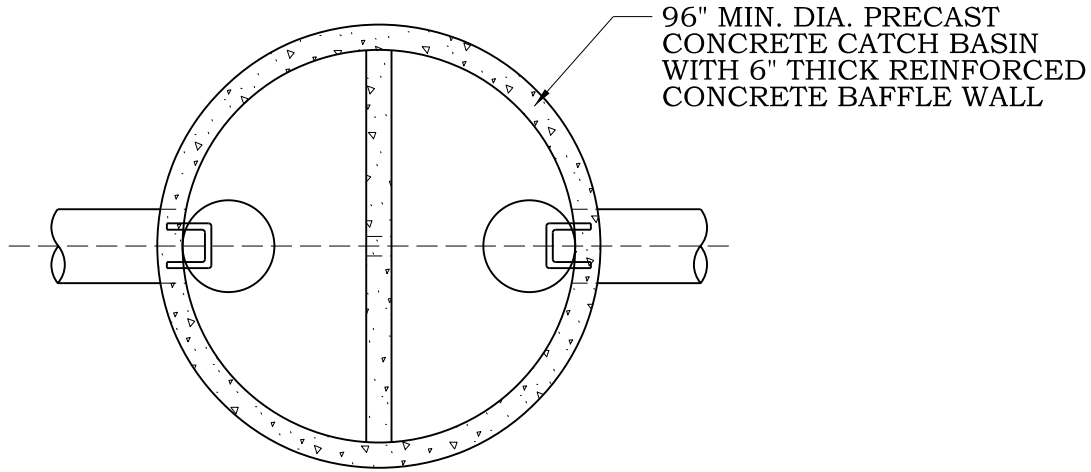
NOTE: SEE CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATION TO VERIFY ROCK SIZE AND BEDDING THICKNESS.



VILLAGE OF HUNTLEY
 10987 MAIN STREET
 HUNTLEY, IL 60142
 (847) 515-5200

RIP RAP

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-9 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



NOTES

1. RESTRICTOR SIZE TO BE APPROVED BY THE VILLAGE ENGINEER.
2. UNLESS OTHERWISE SPECIFIED CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STA. SPEC. ART. 602.
3. PRECAST STRUCTURE SECTIONS TO BE TONGUE AND GROOVED.
4. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
5. MORTAR ALL PIPE PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
6. IN "SUBMERGED" CONDITIONS, ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED AND INTERIOR MORTARED.

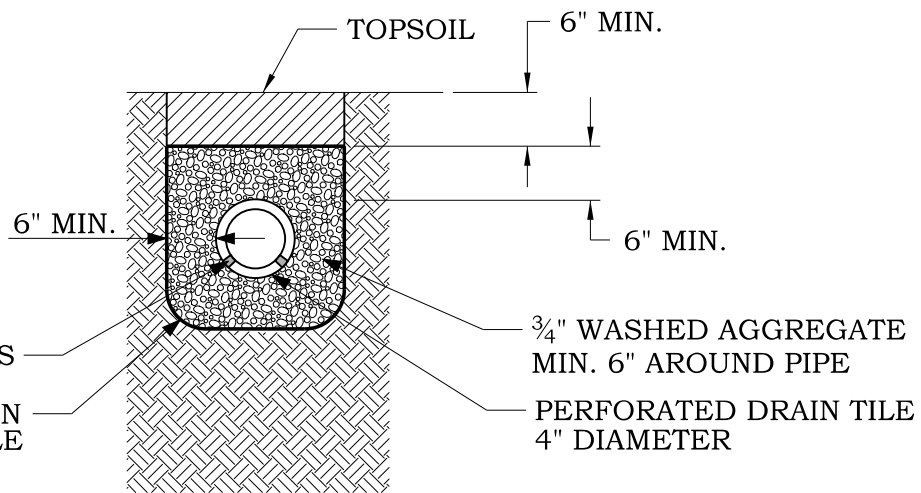
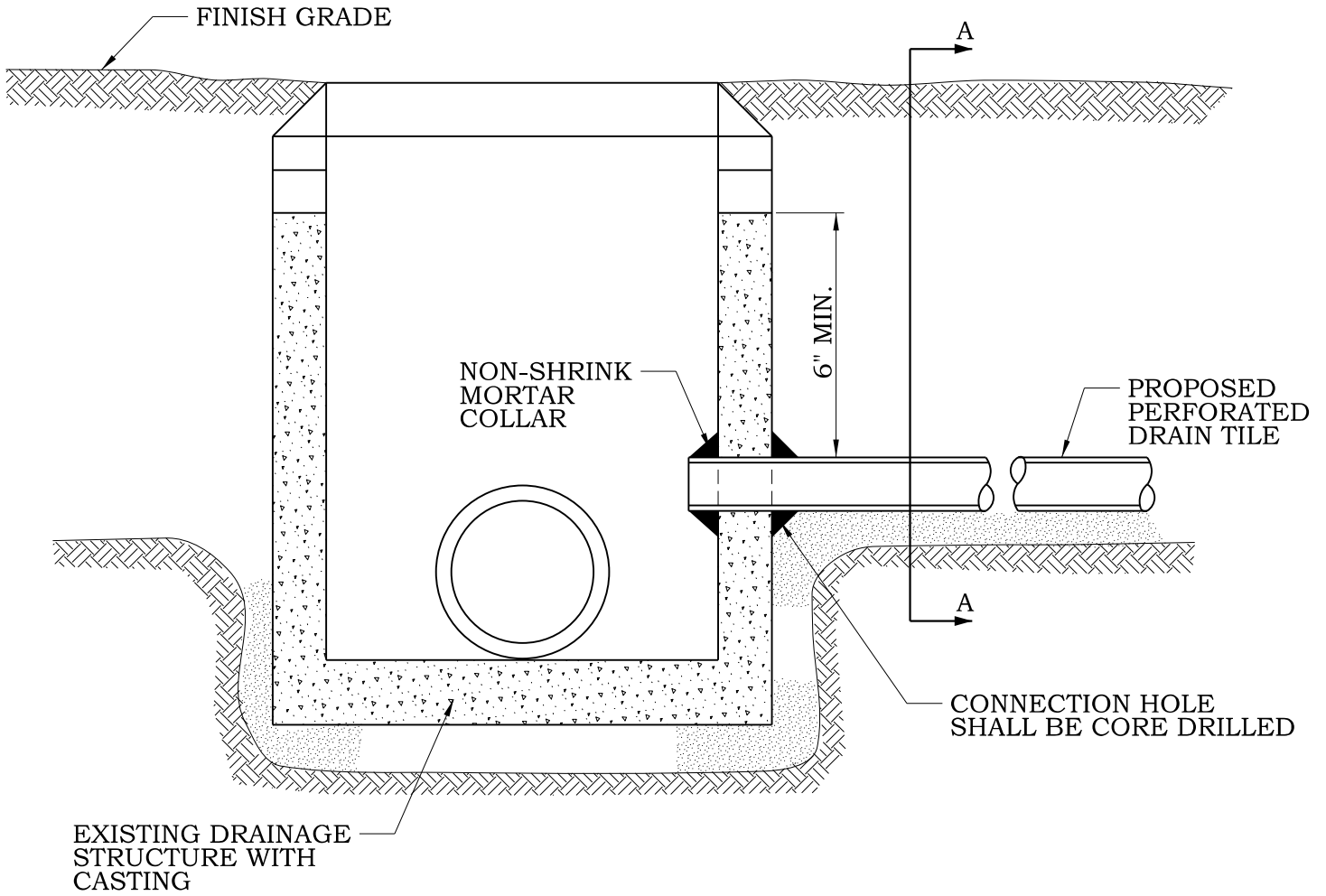


VILLAGE OF HUNTLEY

10987 MAIN STREET
HUNTLEY, IL 60142
(847) 515-5200

**STORM WATER
RESTRICTOR STRUCTURE**

| | | |
|-------------------|----------------------------|-------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER DRN-10 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



NOTES:

1. UNDERDRAIN PIPE SHALL BE 4" DIA. SDR26 PVC
2. PIPE SHALL BE SOLID WALL WHEN NOTED ON PLANS

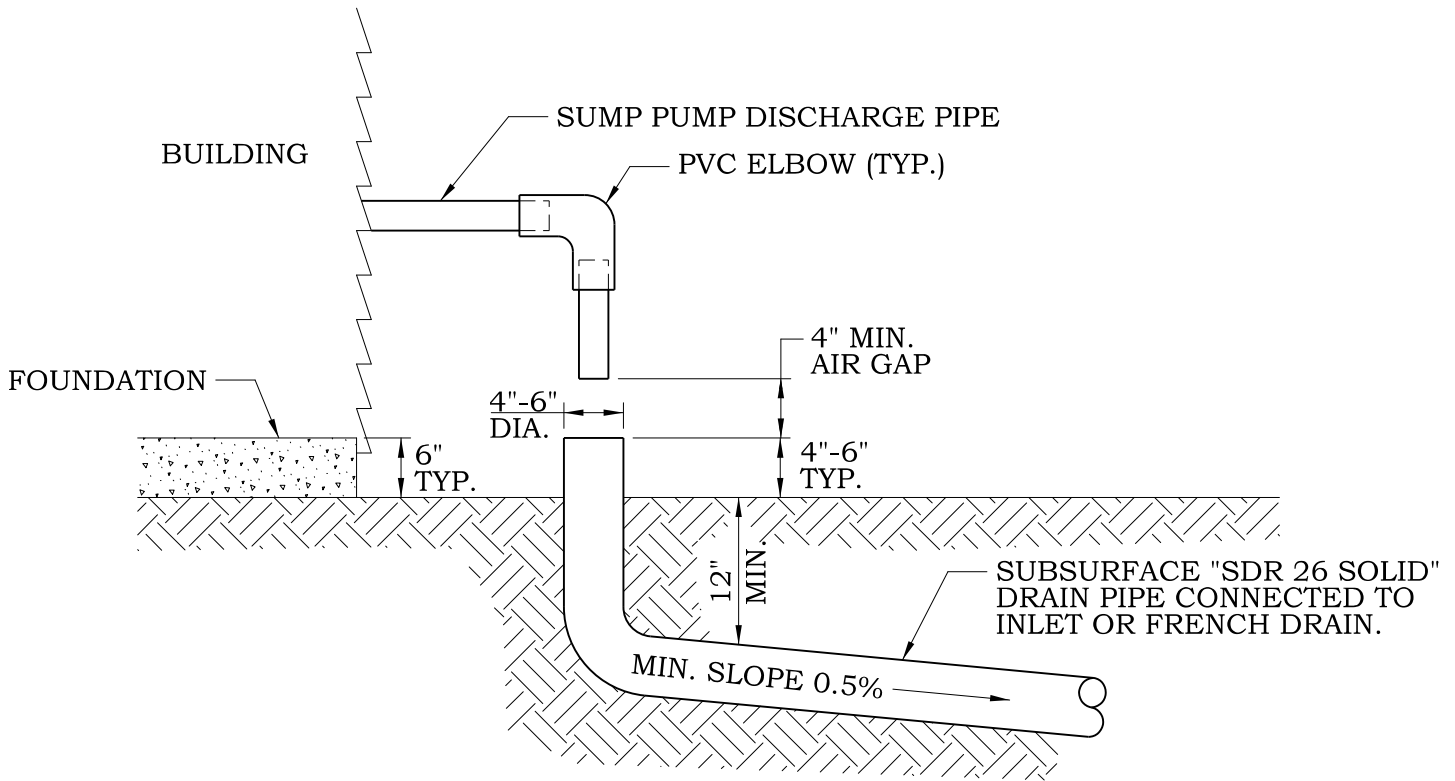


VILLAGE OF HUNTLEY

10987 MAIN STREET
HUNTLEY, IL 60142
(847) 515-5200

**SUBSURFACE DRAIN TILE
AND STRUCTURE CONNECTION**

| | | |
|----------|---------------|----------------|
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| NTS | CBBEL/TPF | |
| DATE: | REVISED: | DRN-11 |
| 1/1/2016 | 3/8/2021 | |



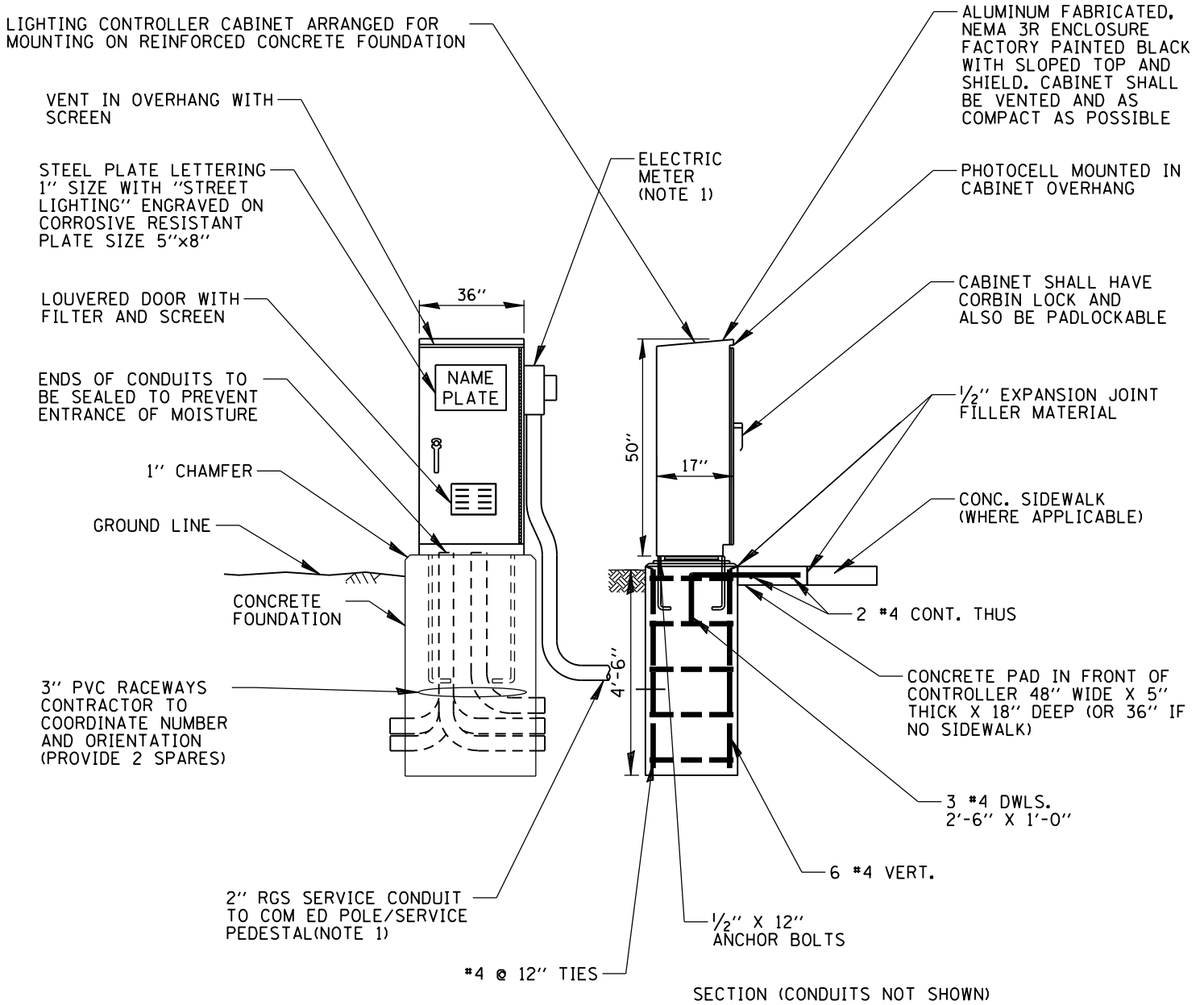
NOTES

1. ALL SUMP PUMP DISCHARGE LINES TO BE CONNECTED TO AN EXISTING STORM STRUCTURE BY CORING STRUCTURE WALL. CORING TO BE DONE ONLY BY VILLAGE OF HUNTLEY PUBLIC WORKS OR VILLAGE AUTHORIZED CONTRACTOR.
2. CONNECTION OF SUMP PUMP DISCHARGE LINES TO STRUCTURE MUST BE INSPECTED BY THE VILLAGE OF HUNTLEY.
3. INSTALLER ASSUMES FULL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL DAMAGE TO UTILITIES OR ADJOINING PROPERTIES.
4. AT-GRADE SUMP PUMP DISCHARGE NOT DIRECTLY CONNECTED TO AN EXISTING STORM STRUCTURE SHALL BE DIRECTED AWAY FROM ADJACENT PROPERTIES AND SHALL BE LOCATED A MINIMUM OF FIVE (5) FEET FROM PROPERTY LINES.



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| | | |
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| SUMP PUMP CONNECTION | | |
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| NTS | CBBEL/TPF | DRN-12 |
| DATE: | REVISED: | |
| 1/1/2016 | 3/8/2021 | |



NOTES:

1. UTILITY METER MOUNTING SHALL MEET REQUIREMENTS OF LOCAL ELECTRIC UTILITY.
2. ALL ITEMS SHOWN ABOVE (INCLUDING FOUNDATION, PAD ELECTRIC METER & GROUND FIELD) SHALL BE INCLUDED IN THE PRICE BID FOR "LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP", EXCEPT FOR THE SERVICE CONDUIT/WIRE WHICH WILL BE PAID FOR SEPARATELY.

LIGHTING CONTROLLER CABINET AND FOUNDATION

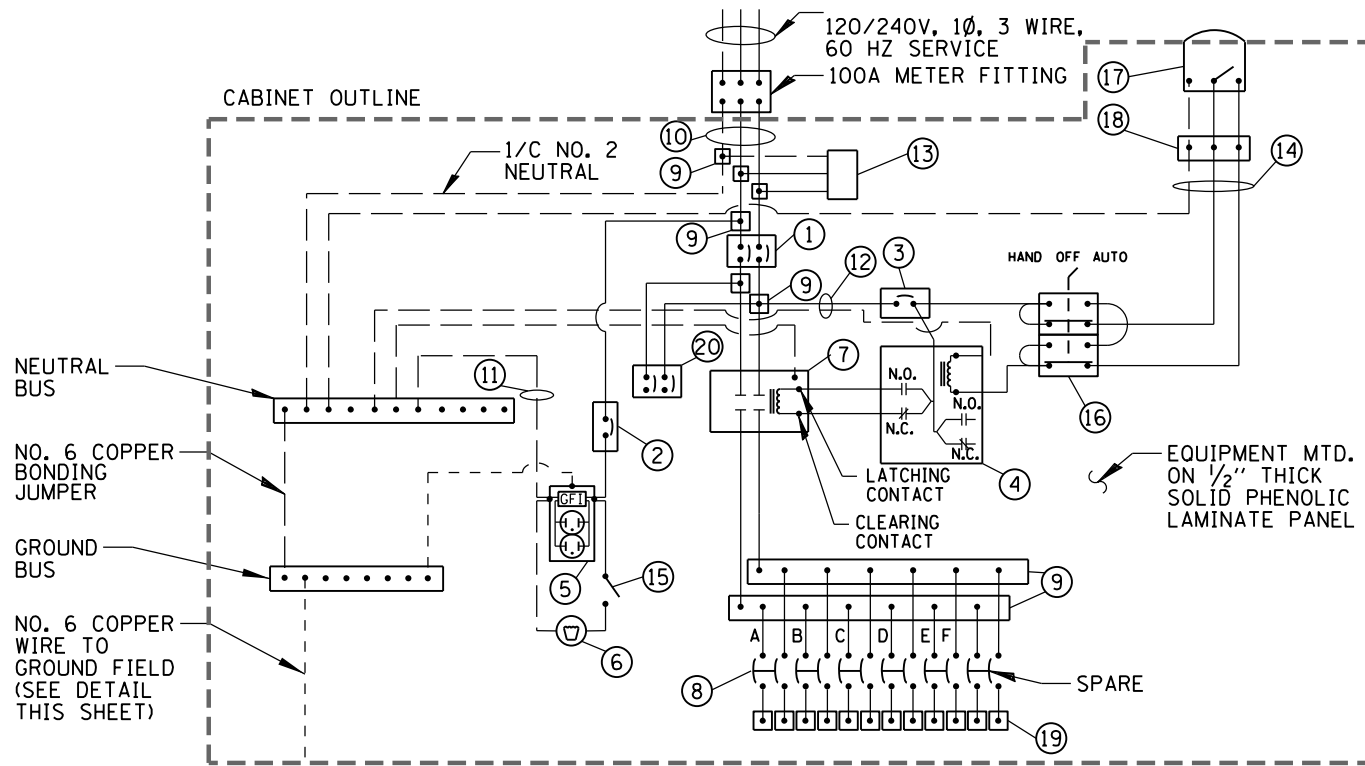
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Lighting Controller and Foundation

| | | |
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| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| NTS | CBBEL/TPF | LGHT-1 |
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_____ PHASE CONDUCTOR
 - - - - - NEUTRAL CONDUCTOR
 - - - - - GROUND CONDUCTOR

NOTE: SEE TRFC-2B FOR COMPONENT SCHEDULE

- NOTES: 1. ALL GROUND CONDUCTORS SHALL BE GREEN AND NEUTRAL CONDUCTORS SHALL BE WHITE. PHASE CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH SECTION 1066.02 OF THE STANDARD SPECIFICATIONS. CONTRACTOR SHALL ONLY USE SOLID COLOR CODED INSULATIONS. COLOR STRIPPING OF PHASE CONDUCTORS SHALL NOT BE ALLOWED.
2. IN ADDITION TO THE TERMINATIONS SHOWN, THE NEUTRAL AND GROUND BUS BARS SHALL EACH ACCOMMODATE A MINIMUM OF 8 ADDITIONAL TERMINATIONS (#2-*14).

LIGHTING CONTROLLER WIRING DETAIL

N.T.S.



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Lighting Controller Wiring Detail

| | | |
|------------------|---------------------|--------------------------------------|
| SCALE: | DRAWN/CHCKD NTS | DRAWING NUMBER LGHT-2A |
| DATE: 2/11/21 | REVISED: 3/11/21 | |

| ITEM | SPECIFICATION | MFG./MODEL NO. OR APPROVED EQUAL |
|---|--|---|
| ① MAIN CIRCUIT BREAKER | 100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC | SIEMENS NO. ED22B100 |
| ② LAMPHOLDER CIRCUIT BREAKER | 20 AMPERE, 1P, 120V RATING, 10KAIC | SIEMENS NO. ED21B020 |
| ③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER | 15 AMPERE, 1P, 120V RATING, 10KAIC | SIEMENS NO. ED21B015 |
| ④ AUXILIARY RELAY | 120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS | MAGNECRAFT NO. 389 FXBXC1 - 120A |
| ⑤ CABINET RECEPTACLE AND BOX | COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER | RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1 |
| ⑥ CABINET LIGHT AND BOX | DIECAST ALUMINUM BOX AND CAGE, WITH VAPORPROOF FROSTED GLASS GLOBE, EXTERIOR GRADE 120V - 13W LED, WALL MOUNT, 4000K | RAB NO. VXBRLD13NDG |
| ⑦ CONTACTOR | 100 AMPERE, 2P, 120V COIL, MECHANICALLY HELD | SQUARE D NO. 8903 S0010 V02 |
| ⑧ BRANCH LINE CIRCUIT BREAKERS | 6-20A, 2P, 240V RATING, 10KAIC | SIEMENS NO. ED22B020 |
| ⑨ POWER DISTRIBUTION BLOCK | 600 VOLT, INSULATED, SIZE AS REQ'D, 10KAIC | MARATHON |
| ⑩ SERVICE CABLES | 3-600V (XLP-TYPE USE) NO. #2 | N/A |
| ⑪ LAMPHOLDER WIRE | 2-600V XLP NO. 12 | N/A |
| ⑫ GROUND/NEUTRAL BUS | COPPER NEUTRAL BUS- MINIMUM 20 SPARE TERMINATIONS (#1/0-#10), & COPPER GROUND BUS - MINIMUM 12 SPARE TERMINATIONS (#1/0-#10). BUSSES SHALL BE HORIZONTAL LOCATED BASE OF CABINET | ERICO NO. TCB |
| ⑬ SURGE ARRESTOR | 10 K AMPERE RATING | SQUARE D NO. SDSA 1175 |
| ⑭ PHOTOELECTRIC/CONTROL WIRE | 600V MTW NO. 12, MARKED WITH BRADY MARKERS | N/A |
| ⑮ DOOR SWITCH | 20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH | OMRON NO. A-20G0-K |
| ⑯ HAND-AUTO-OFF CONTROL SWITCH | 20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE | SQUARE D NO. 9001 KYK 111 |
| ⑰ PHOTOCCELL | 120V, MTD. ON CABINET, DELAY TYPE, SPST-NC | FISHER PIERCE NO. FPFA-105M |
| ⑱ TERMINAL BLOCK | 3 TERMINAL, SCREW TYPE, MAX. #10 WIRE SIZE | CINCH NO. 3-142 |
| ⑲ TERMINAL BLOCKS | 30 AMPERE, 240V, 15 CKTS, (2)*12-#4 AWG, INSULATED, CKTS LABELED, BLOCKS INSTALLED HORIZONTAL LOCATED BASE OF CABINET | SQUARE D NO. GD6 |
| ⑳ SPARE CIRCUIT BREAKER | 30 AMPERE, 2P, 240V RATING, 10 KAIC | SIEMENS NO.: ED22B030 |

- NOTES:
1. ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 100 AMP" INCLUDING CABINET AND FOUNDATION.
 2. THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
 3. CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."
 4. THE MAIN CIRCUIT BREAKER & LAMP HOLDER CIRCUIT BREAKER SHALL BE LABELED "SERVICE DISCONNECT".
 5. ALL SWITCHES AND CONTROLS SHALL BE IDENTIFIED USING TWO COLOR ENGRAVED NAMEPLATES.
 6. THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.
 7. ALL EXPOSED BUS BARS SHALL BE INSULATED.
 8. ALL WIRING SHALL BE COPPER.

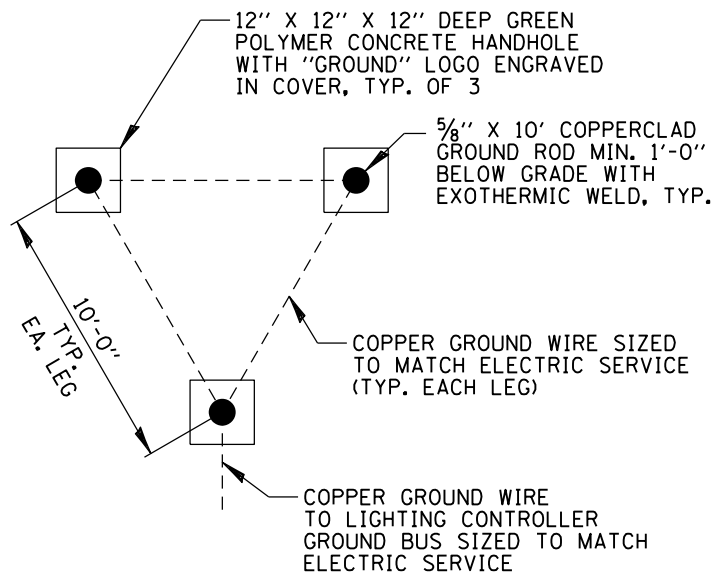
LIGHTING CONTROLLER COMPONENT SCHEDULE



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Lighting Controller Wiring Schedule

| | | |
|------------------|---------------------|--------------------------------------|
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| DATE: 2/11/21 | REVISED: 3/11/21 | |



NOTES:

1. ACCESS WELLS SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM.

GROUND FIELD DETAIL

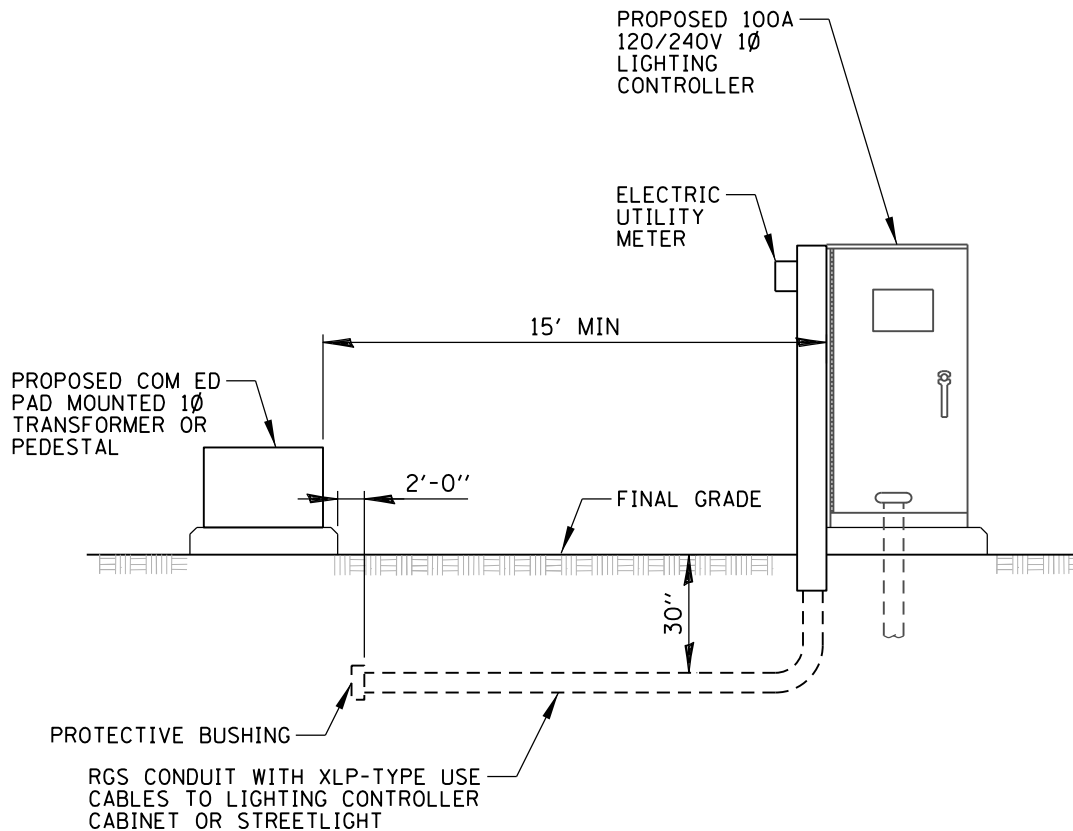
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Ground Field Detail

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| DATE: 2/11/21 | REVISED: 3/11/21 | |



NOTES:

1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. INSTALL SERVICE CONDUIT UP TO 2' AWAY FROM PEDESTAL/TRANSFORMER WITH PROTECTIVE BUSHING ON END OF CONDUIT. PROVIDE ADEQUATE SLACK CABLE COILED UP FOR COM ED TO CONNECT. CONTRACTOR TO SCHEDULE & COORDINATE ALL WORK WITH COM ED.
3. ALL MATERIAL ABOVE (EXCEPT FOR TRANSFORMER) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE INSTALLATION". THE HORIZONTAL SERVICE CONDUIT AND WIRING FROM TRANSFORMER TO CONTROLLER SHALL BE PAID FOR SEPERATELY.

ELECTRIC SERVICE INSTALLATION DETAIL

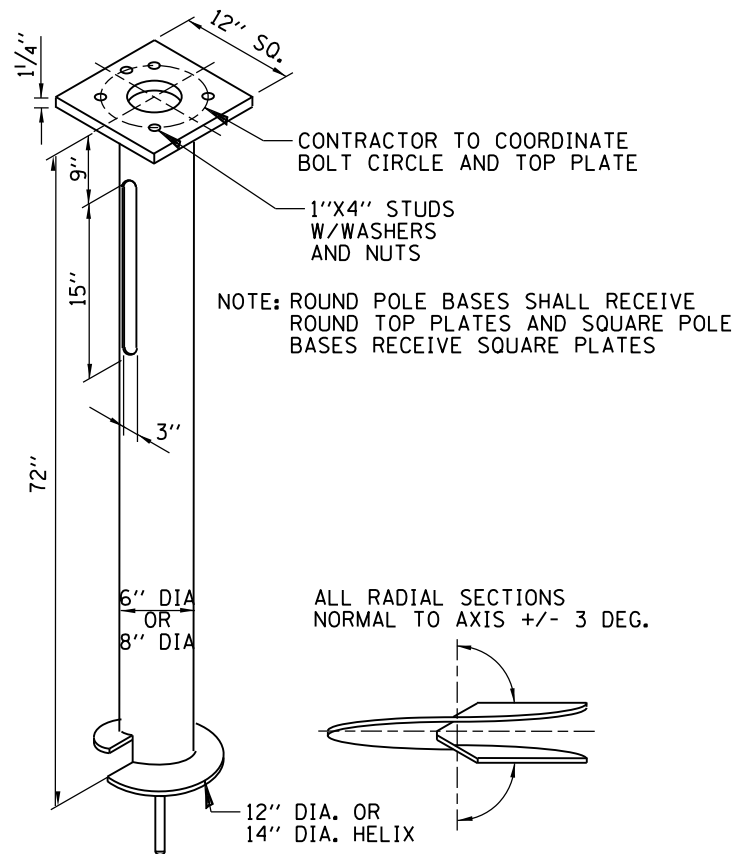
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Electric Service Installation Detail To Pedestal/Transformer

| | | |
|---------|--------------------|----------------|
| SCALE: | DRAWN/CHCKD NTS | DRAWING NUMBER |
| DATE: | REVISED: | LGHT-4 |
| 2/11/21 | 3/11/21 | |



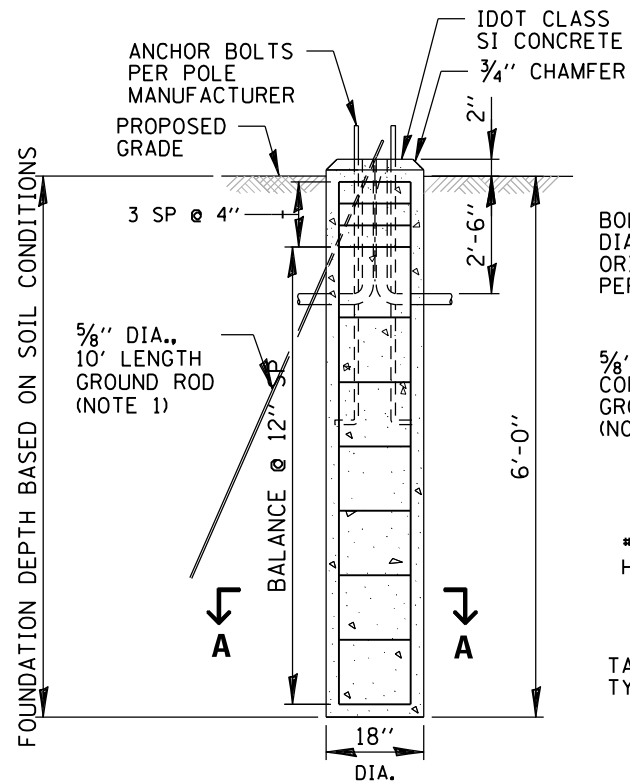
NOTE: ROUND POLE BASES SHALL RECEIVE ROUND TOP PLATES AND SQUARE POLE BASES RECEIVE SQUARE PLATES

ALL RADIAL SECTIONS NORMAL TO AXIS +/- 3 DEG.

WRAP 24" WIDE FILTER FABRIC TWICE AROUND SHAFT OF HELIX FOUNDATION TO PREVENT SOIL SETTLING. USE MIRAFLI "FILTERWEAVE 500" OR EQUAL

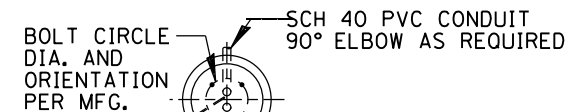
HELIX FOUNDATION

HELIX SIDE VIEW



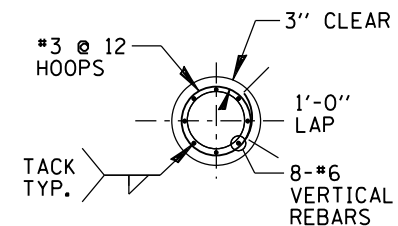
NOTES:

1. GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
2. FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.
3. ALL ITEMS SHOWN ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR "LIGHT POLE FOUNDATION, SPECIAL".



PLAN

5/8" DIA. COPPER CLAD GROUND ROD (NOTE 1)



SECTION A-A

LIGHT POLE FOUNDATION DETAIL

N.T.S.

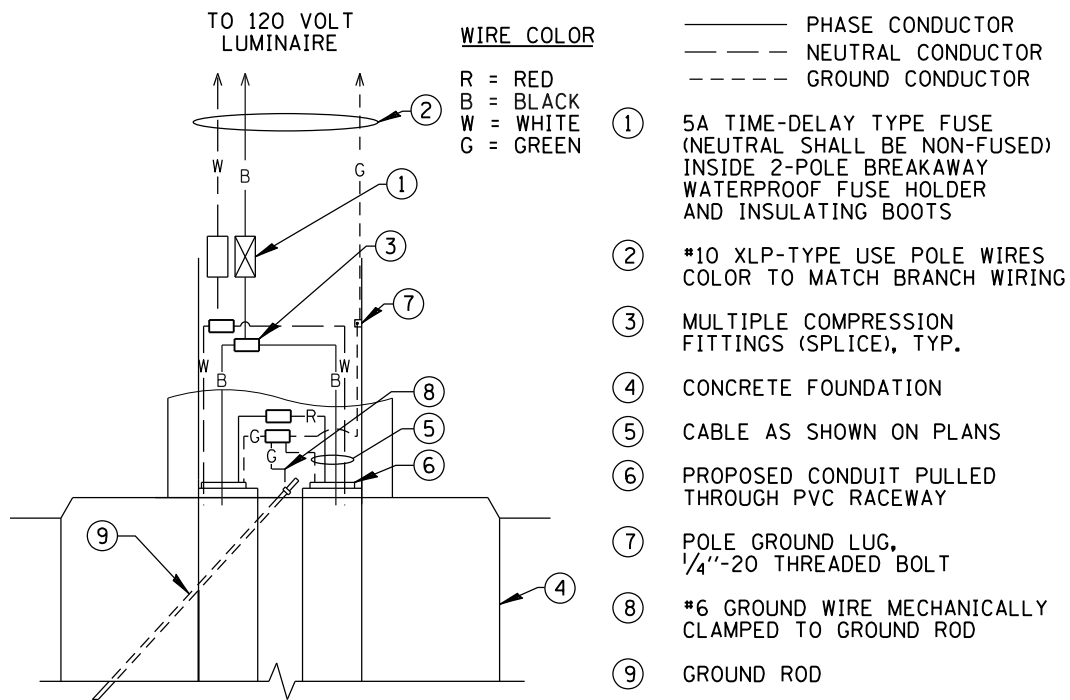


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Light Pole Foundation Detail

| | | |
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| NTS | CBBEL/TPF | LGHT-5 |
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LIGHT POLE HANDHOLE WIRING DIAGRAM

N.T.S.



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Light Pole Handhole Wiring Diagram

SCALE:

DRAWN/CHCKD
 NTS

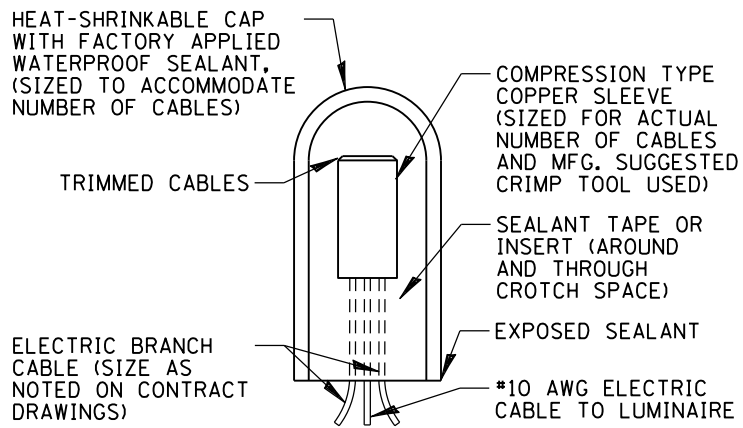
DRAWING NUMBER

DATE:

2/17/21

REVISED:
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LGHT-6



SPLICING ELECTRIC CABLE

N.T.S.



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Splicing Electric Cable

| | | |
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| SCALE: | DRAWN/CHCKD NTS | DRAWING NUMBER |
| DATE: 2/17/21 | REVISED: 3/11/21 | LGHT-7 |

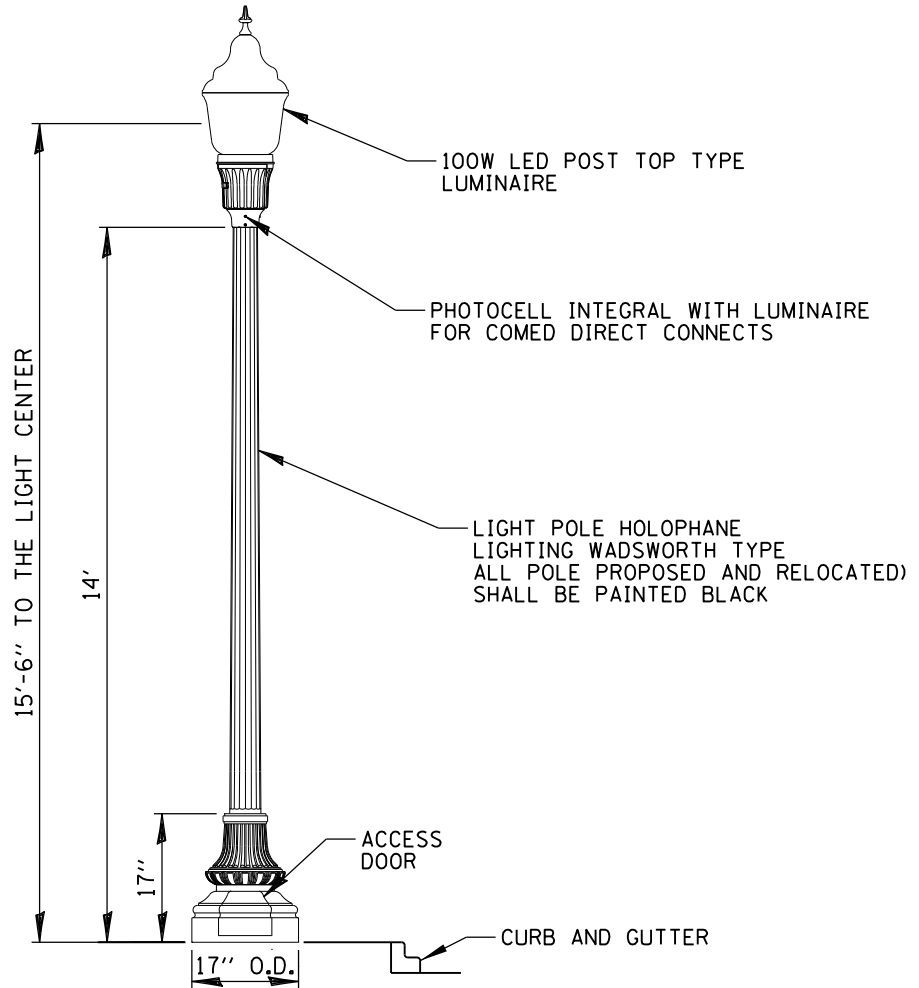
BOLT CIRCLE AND ANCHORING PER MANUFACTURER



HANDHOLE

FACING AWAY FROM TRAFFIC

STREET SIDE



NOTES:

1. DOOR SHALL FACE AWAY FROM TRAFFIC.

RESIDENTIAL ROADWAY LED LIGHTING UNIT

N.T.S.

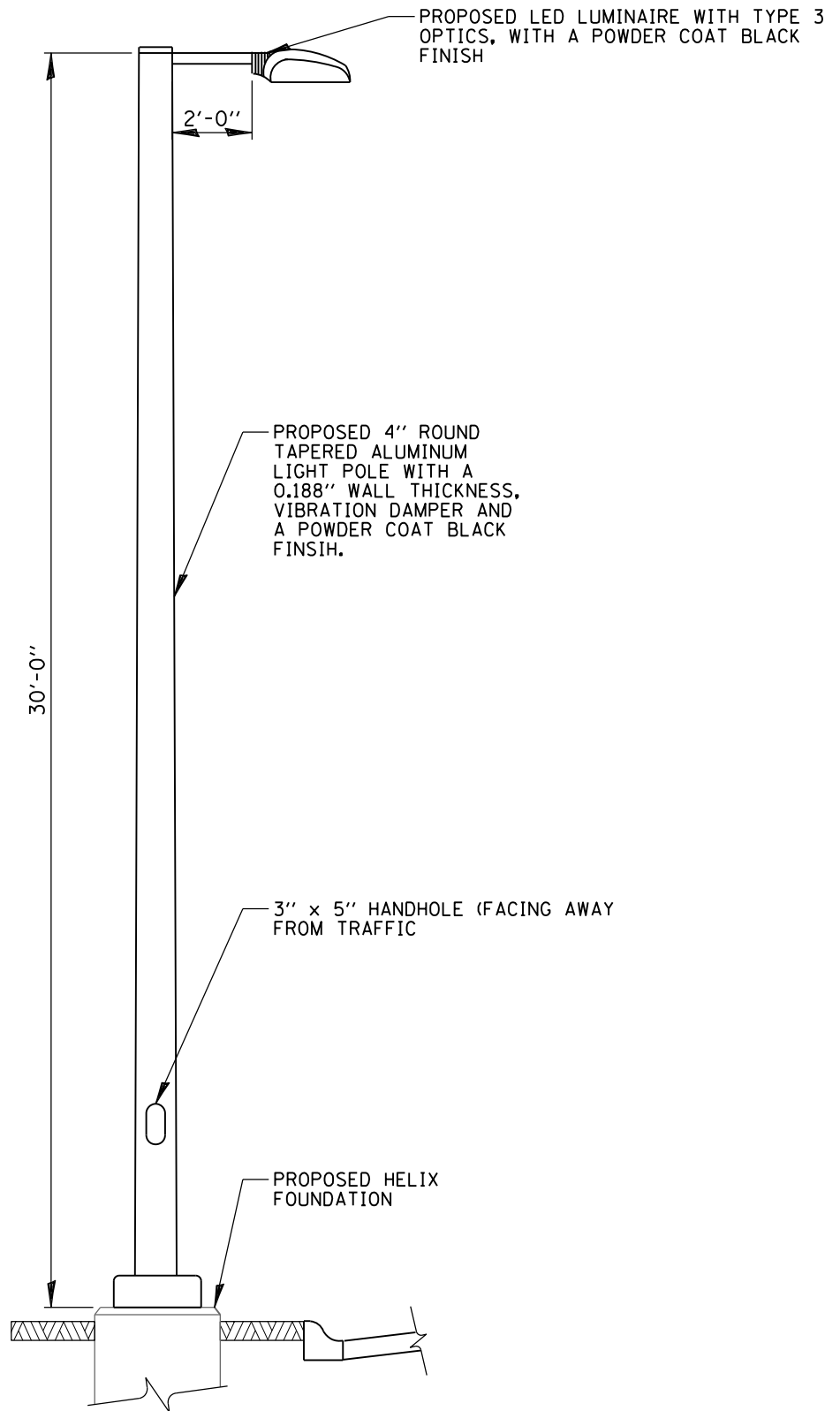


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Residential Roadway LED Lighting Unit

| | | |
|------------------|---------------------|-------------------------------------|
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COLLECTOR ROADWAY LED LIGHTING UNIT

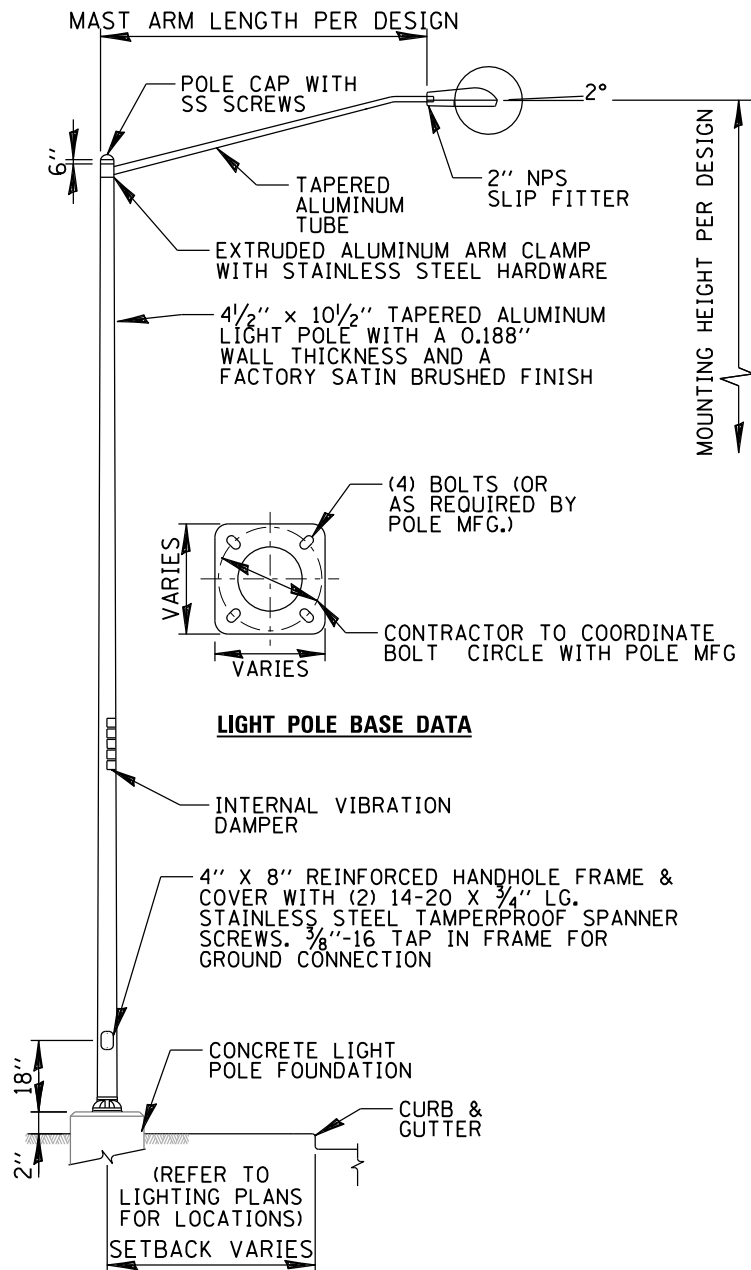
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Collector Roadway LED Lighting Unit

| | | |
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| SCALE: N.T.S. | DRAWN/CHCKD NTS | DRAWING NUMBER LGHT-9 |
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ARTERIAL ROADWAY LIGHT POLE DETAIL

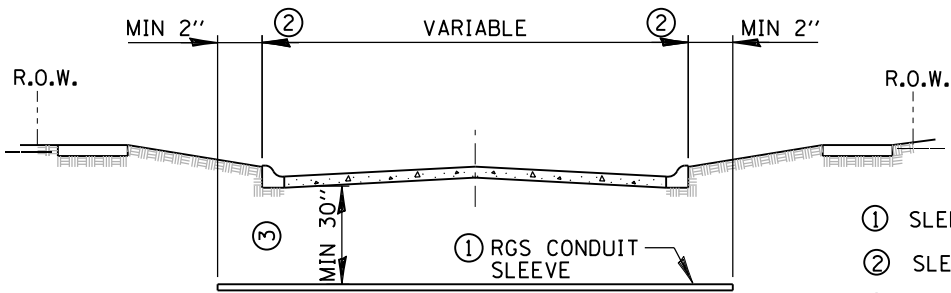
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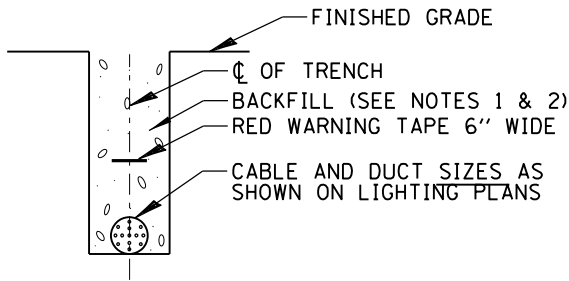
Arterial Roadway Light Pole Detail

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| SCALE: | DRAWN/CHCKD NTS | DRAWING NUMBER LGHT-10 |
| DATE: 2/17/21 | REVISED: 3/11/21 | |



ROADWAY / PAVEMENT CROSSING

- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) OR HDPE CONDUIT, MIN. 2".
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 30" BELOW ROADWAY OR CURB BOTTOM.



TRENCH CROSS SECTION

NOTES:

1. BACKFILL MATERIAL SHALL BE FREE OF BRICK, ROCK, OR ANY MATERIAL THAT COULD DAMAGE THE CONDUIT.
2. BACKFILL MATERIAL FOR TRENCHES WHERE THE INNER EDGE OF THE TRENCH IS WITHIN 2 FT OF THE EDGE OF THE PROPOSED PAVEMENT, CURB, GUTTER, CURB AND GUTTER, STABILIZED SHOULDER, OR SIDEWALK SHALL BE TRENCH BACKFILL, AND PAID FOR AT THE CONTRACT UNIT PAY ITEM "TRENCH BACKFILL."
3. ALL WIRE, CABLE, AND UNI-DUCT TO BE FURNISHED ARE TO BE INSTALLED WITH A MINIMUM BURIAL OF 30" IN LOCATIONS ON THE RIGHT-OF-WAY SIDE OF THE FRONT SET-BACK LIMIT AND ARE TO BE INSTALLED WITH A MINIMUM BURIAL OF 48" IN LOCATIONS ON THE REAR YARD SIDE OF THE FRONT SET-BACK LIMIT.
4. STREET LIGHT CABLES ALONGSIDE PROPERTY LINES SHALL BE INSTALLED WITHIN UTILITY EASEMENTS AND 3 FT FROM AND PARELLEL TO THE PROPERTY LINE.
5. ALL RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES IN INDIVIDUAL CABLE SPANS OR UNI-DUCT RUNS FROM TRANSFORMER OR PEDESTAL TO POLE OR HANDHOLE OR POLE OR HANDHOLE TO CONTROL CABINET.

ELECTRIC CONDUIT INSTALLATION

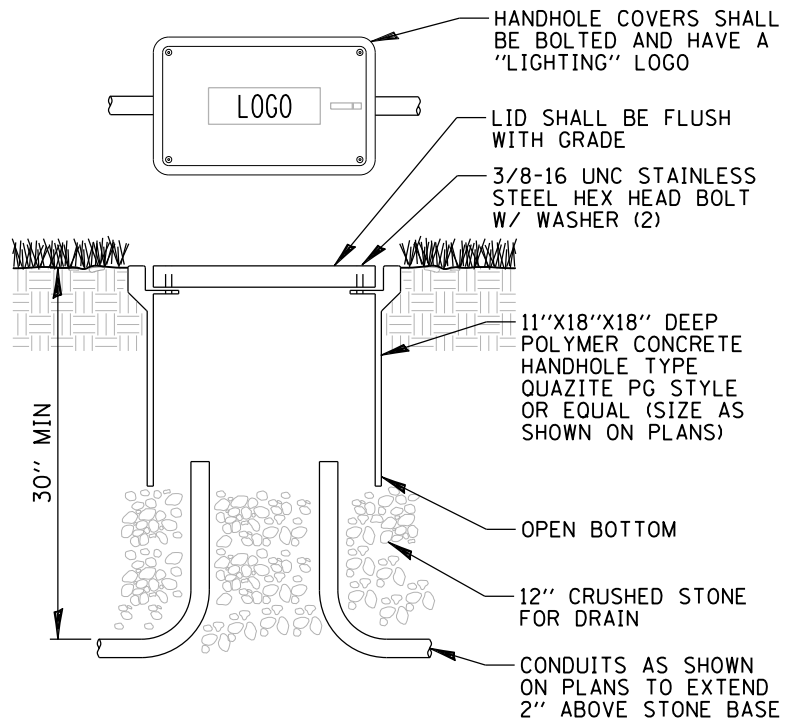
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Electric Conduit Installation

| | | |
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| DATE: 2/11/21 | REVISED: 3/11/21 | |



NOTES:

1. NO SPLICES ALLOWED IN HANDHOLE.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GRAY.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

POLYMER CONCRETE HANDHOLE

N.T.S.



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Polymer Concrete Handhole

SCALE:

DRAWN/CHCKD
NTS

DRAWING NUMBER

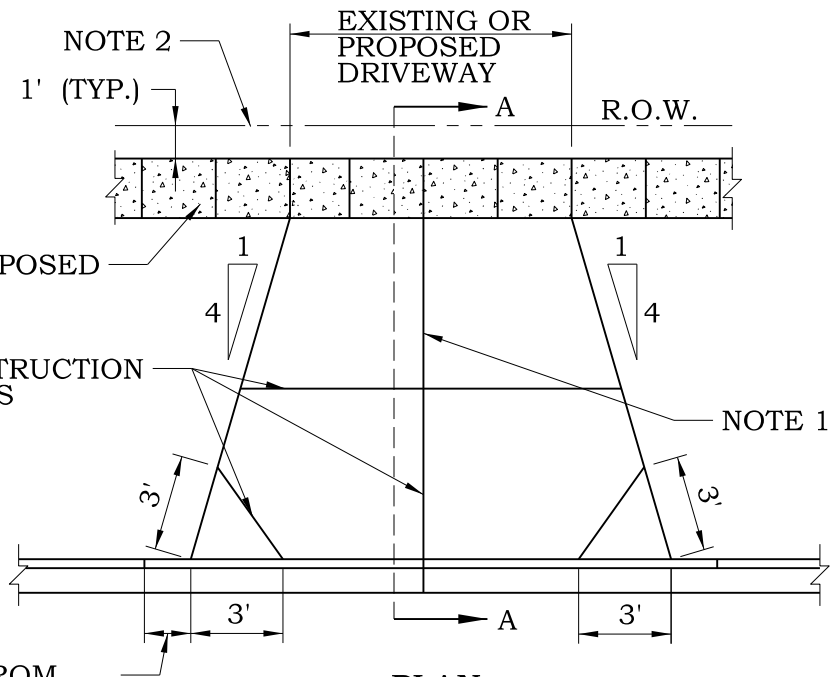
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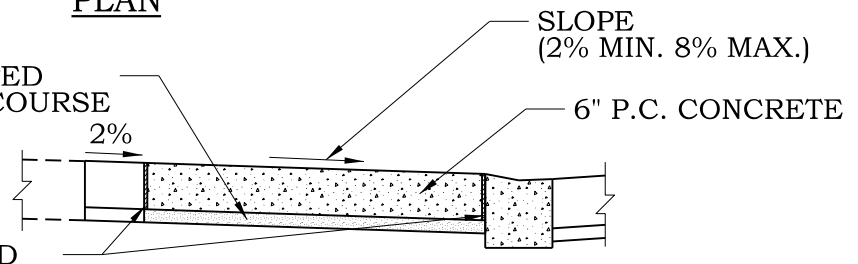
REVISED:

3/11/21

LGHT-12



PLAN



SECTION A-A

CURB TRANSITION FROM FULL HEIGHT TO DEPRESSED OVER 1.5' (TYP.)

NOTES

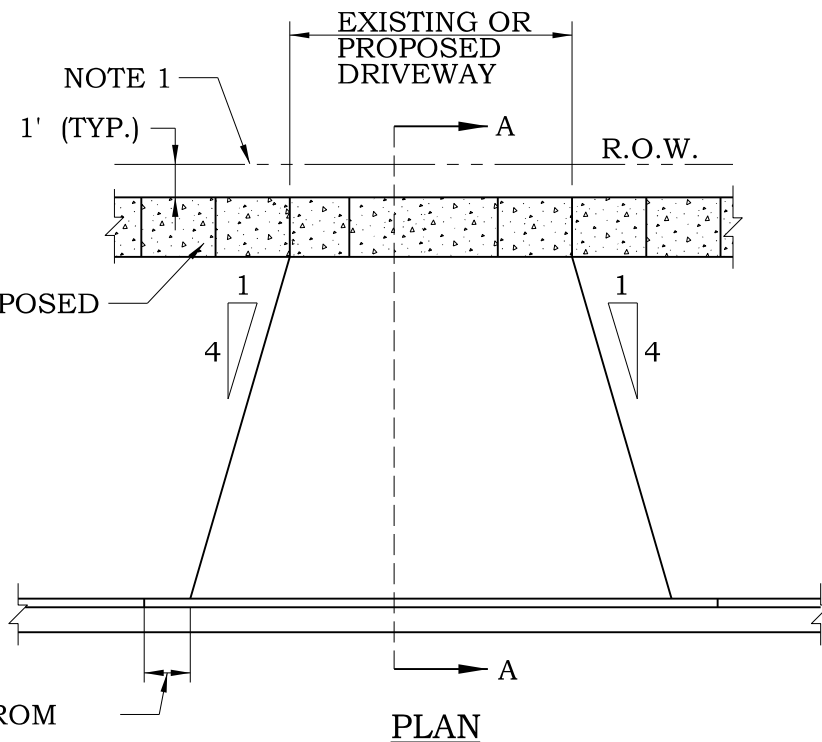
1. FOR COMBINED COMMON DRIVEWAYS, THIS JOINT SHALL BE FULL DEPTH WITH PREMOLDED FIBER EXPANSION JOINT ALONG THE COMMON LOT LINE AS EXTENDED. COMMON DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH TWO SEPARATE PLACING AND FINISHING OPERATIONS, ONE FOR EACH APPROACH.
2. DRIVEWAY WIDTH AT R.O.W. SHALL NOT EXCEED THE ALLOWABLE WIDTH OF THE DRIVEWAY AS ALLOWED BY VILLAGE CODE.
3. CONCRETE SHALL CONTAIN SYNTHETIC FIBER REINFORCEMENT ADDITIVE AND BE AN IDOT APPROVED CLASS SI MIX. THE USE OF WELDED WIRE MESH IS PROHIBITED.
4. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A BROOMED FINISH.
5. NO MANHOLES, INLETS, VALVE VAULTS, B-BOXES OR OTHER STRUCTURES ARE ALLOWED IN APPROACHES OR SIDEWALK.
6. EXISTING DRIVEWAY APPROACHES MAY NOT BE WIDENED OVER WATER AND SEWER SERVICES.
7. APRON/SIDEWALK SHALL BE POURED SEPARATELY.
8. 3/4" FIBER EXPANSION JOINT SHALL BE USED AT BOTH APRON/CURB AND APRON/SIDEWALK LINE.
9. AN IDOT APPROVED MEMBRANE CURING COMPOUND MUST BE PLACED ON THE FINISHED CONCRETE PER IDOT STANDARD SPECIFICATIONS 1020.13 AND 1022.01 (IDOT APPROVED PAILS OR DRUMS SHALL BE INSPECTED/WITNESSED BY THE VILLAGE OF HUNTLEY OR VILLAGE REPRESENTATIVE). NON-IDOT APPROVED CURING/SEALING PRODUCTS WILL BE PROHIBITED.



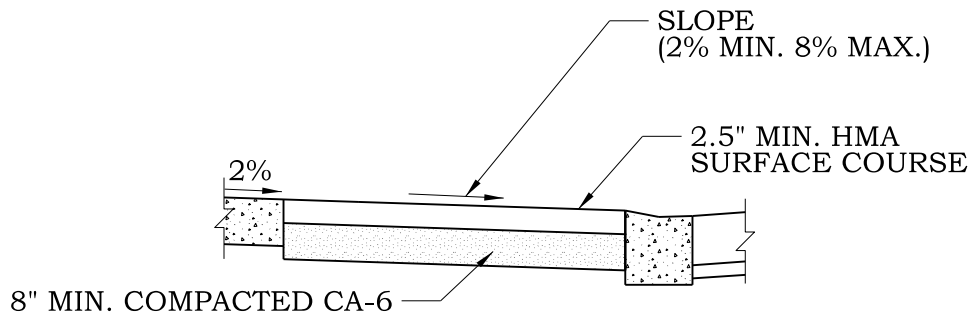
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P.C. CONCRETE RESIDENTIAL DRIVEWAY APPROACH

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER PVT-1 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



CURB TRANSITION FROM FULL HEIGHT TO DEPRESSED OVER 1.5' (TYP.)



SECTION A-A

NOTES

1. DRIVEWAY WIDTH AT R.O.W. SHALL NOT EXCEED THE ALLOWABLE WIDTH OF THE DRIVEWAY AS ALLOWED BY VILLAGE CODE.
2. NO MANHOLES, INLETS, VALVE VAULTS, B-BOXES, OR OTHER STRUCTURES ARE ALLOWED IN APPROACH OR SIDEWALK.
3. EXISTING DRIVEWAY APPROACHES MAY NOT BE WIDENED OVER WATER AND SEWER SERVICES.

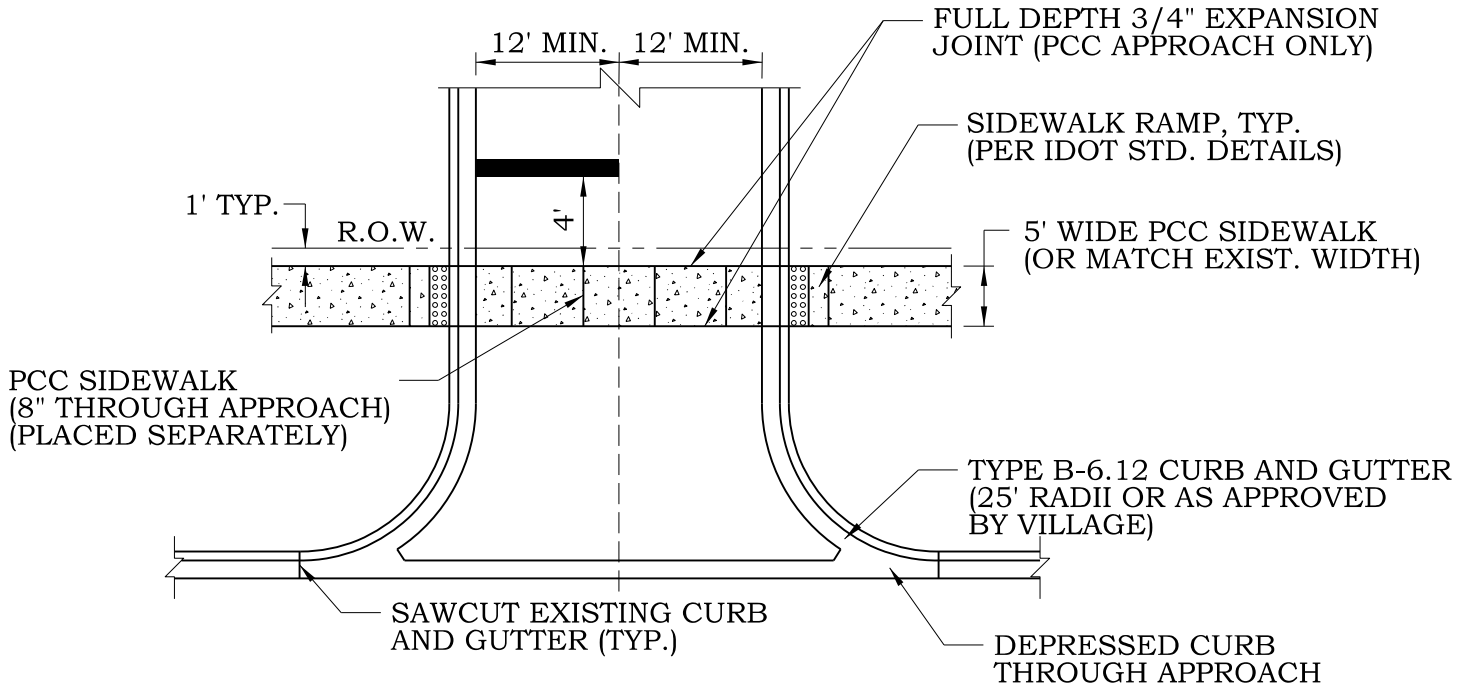


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**HMA RESIDENTIAL DRIVEWAY
APPROACH**

| | | |
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| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER PVT-2 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



NOTES

1. MAX. APPROACH SLOPE=8%. MIN. APPROACH SLOPE=2%.
2. THICKNESSES OF PCC OR HMA AND AGGREGATE SUBBASE FOR NON-RESIDENTIAL DRIVEWAY APPROACHES SHALL CONFORM TO MINIMUM PAVEMENT REQUIREMENTS AS DETAILED ON PVT-6 "PARKING LOT HEAVY DUTY PAVEMENT" UNLESS APPROVED BY THE VILLAGE ENGINEER.
3. APPROACH WIDTH AT R.O.W. PER APPROVED PLANS.
4. CONCRETE SHALL CONTAIN SYNTHETIC FIBER REINFORCEMENT ADDITIVE AND BE AN IDOT APPROVED CLASS PV MIX. THE USE OF WELDED WIRE MESH IS PROHIBITED.
5. NO MANHOLES, INLETS, VALVE VAULTS, B-BOXES OR OTHER STRUCTURES ARE ALLOWED IN APPROACHES OR SIDEWALK.
6. PCC APPROACH/PCC SIDEWALK SHALL BE POURED SEPARATELY.
7. 3/4" FIBER EXPANSION JOINT SHALL BE USED AT BOTH APPROACH/CURB AND APPROACH/SIDEWALK LINE.
8. AN IDOT APPROVED MEMBRANE CURING COMPOUND MUST BE PLACED ON THE FINISHED CONCRETE PER IDOT STANDARD SPECIFICATIONS 1020.13 AND 1022.01 (IDOT APPROVED PAILS OR DRUMS SHALL BE INSPECTED/WITNESSED BY THE VILLAGE OF HUNTLEY OR VILLAGE REPRESENTATIVE). NON-IDOT APPROVED CURING/SEALING PRODUCTS WILL BE PROHIBITED.
9. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A BROOMED FINISH.

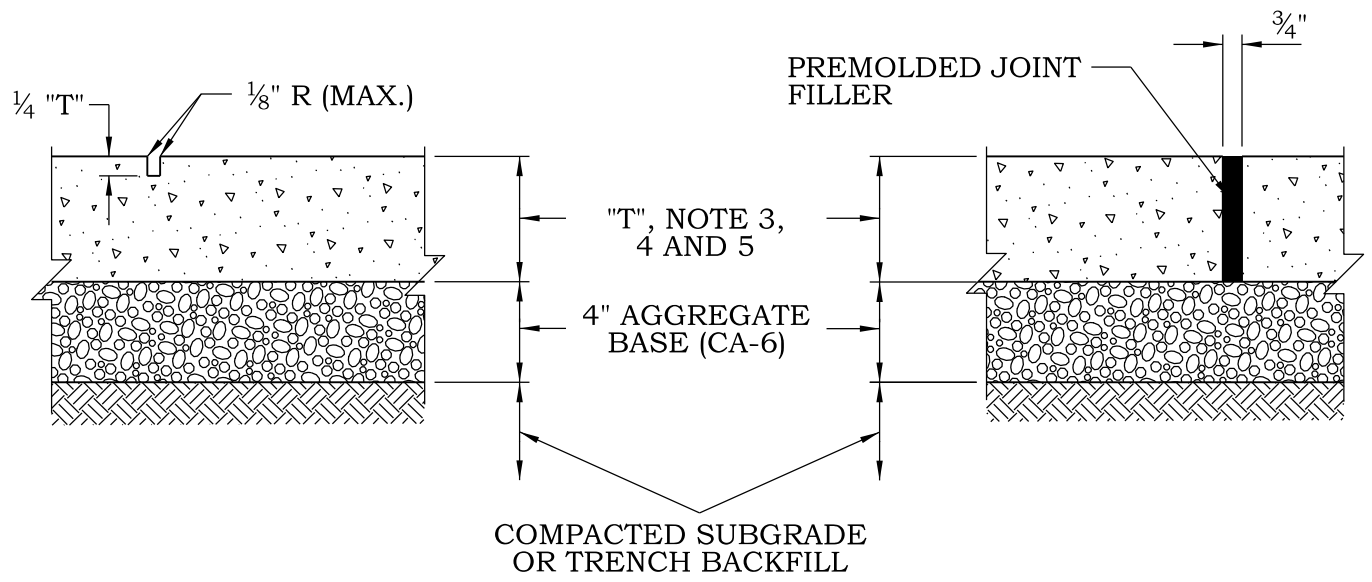


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NON-RESIDENTIAL DRIVEWAY APPROACH

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER PVT-3 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |



CONTRACTION JOINT DETAIL

EXPANSION JOINT DETAIL

NOTES

1. UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE AT 5'-0" O.C.
2. EXPANSION JOINTS TO BE 50'-0" O.C. MAXIMUM, AT BACK OF CURB, CHANGE OF DIRECTION, EXISTING WALK, UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
3. PORTLAND CEMENT CONCRETE SHALL BE IDOT CLASS SI, MIN. 3500 PSI (6.1 BAG MIX) AT 14 DAYS, WITH 5% TO 8% AIR ENTRAINMENT (NO FLY ASH ALLOWED).
4. SIDEWALKS THROUGH DRIVEWAYS SHALL CONTAIN SYNTHETIC FIBER REINFORCEMENT ADDITIVE. THE USE OF WELDED WIRE MESH IS PROHIBITED.
5. SIDEWALK THICKNESS SHALL BE 5". FOR SIDEWALK THROUGH THE LIMITS OF DRIVEWAYS, THICKNESS SHALL BE 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR NON RESIDENTIAL DRIVEWAYS.
6. ALL SIDEWALKS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT.
7. ALL SIDEWALKS SHALL BE STAMPED WITH A "W" INDICATING THE LOCATION OF WATER SERVICE AND "S" INDICATING THE LOCATION OF SANITARY SERVICES.
8. AN IDOT APPROVED MEMBRANE CURING COMPOUND MUST BE PLACED ON THE FINISHED CONCRETE PER IDOT STANDARD SPECIFICATIONS 1020.13 AND 1022.01 (IDOT APPROVED PAILS OR DRUMS SHALL BE INSPECTED/WITNESSED BY THE VILLAGE OF HUNTLEY OR VILLAGE REPRESENTATIVE). NON-IDOT APPROVED CURING/SEALING PRODUCTS WILL BE PROHIBITED.
9. ALL SIDEWALK PLACED OVER ALL AREAS OF UTILITY TRENCHES OR EXCAVATED AREAS SHALL BE REINFORCED WITH A MINIMUM OF TWO #4 BARS 24" ON CENTER FOR A LENGTH EXTENDING 10' FROM THE CENTERLINE OF THE TRENCH.



VILLAGE OF HUNTLEY
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CONCRETE SIDEWALK

| | | |
|----------|---------------|----------------|
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| DATE: | REVISID: | |
| NTS | CBBEL/TPF | |
| 1/1/2016 | 1/1/2016 | PVT-4 |

| STREET CLASSIFICATION | MINIMUM PAVEMENT REQUIREMENTS |
|--|---|
| MAJOR ARTERIAL | 6" AGGREGATE BASE COURSE 8" P.C. CONCRETE - OR - 6" AGGREGATE BASE COURSE 8" HOT-MIX ASPHALT BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 2" HOT-MIX ASPHALT SURFACE COURSE |
| SECONDARY ARTERIAL | 6" AGGREGATE BASE COURSE 8" P.C. CONCRETE - OR - 6" AGGREGATE BASE COURSE 7" HOT-MIX ASPHALT COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 2" HOT-MIX ASPHALT SURFACE COURSE |
| COLLECTOR - INDUSTRIAL/COMMERCIAL LOCAL - INDUSTRIAL/COMMERCIAL | 6" AGGREGATE BASE COURSE 8" P.C. CONCRETE - OR - 6" AGGREGATE BASE COURSE 8" HOT-MIX ASPHALT BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 2" HOT-MIX ASPHALT SURFACE COURSE |
| COLLECTOR - RESIDENTIAL | 4" AGGREGATE BASE COURSE 6" HOT-MIX ASPHALT BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 2" HOT-MIX ASPHALT SURFACE COURSE |
| LOCAL - RESIDENTIAL | 10" AGGREGATE BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 2" HOT-MIX ASPHALT SURFACE COURSE |

NOTES

1. SECTIONS REPRESENT THE MINIMUM CROSS SECTIONS ALLOWED.
2. HOT MIX ASPHALT SURFACE AND BINDER COURSE SHALL CONFORM TO IDOT DISTRICT 1 LOCAL ROAD HMA MIX SELECTION TABLE.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS PV.
4. ALL SUBGRADE SHALL HAVE A MINIMUM ILLINOIS BEARING RATIO (IBR) OF 3.0, AND BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR DENSITY (ASTM. D-1557)



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**MINIMUM PAVEMENT REQUIREMENTS
 ROADWAY**

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER PVT-5 |
| DATE: 1/1/2016 | REVISED: 3/8/2021 | |

| PARKING LOT CLASSIFICATION | MINIMUM PAVEMENT REQUIREMENTS |
|------------------------------------|---|
| PARKING LOT STANDARD DUTY PAVEMENT | 10" AGGREGATE BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 1.5" HOT-MIX ASPHALT SURFACE COURSE - OR - 6" AGGREGATE BASE COURSE 6" P.C. CONCRETE |
| PARKING LOT HEAVY DUTY PAVEMENT | 6" AGGREGATE BASE COURSE 4" HOT-MIX ASPHALT BASE COURSE 2.5" HOT-MIX ASPHALT BINDER COURSE 1.5" HOT-MIX ASPHALT SURFACE COURSE - OR - 6" AGGREGATE BASE COURSE 8" P.C. CONCRETE |

NOTES

1. SECTIONS REPRESENT THE MINIMUM CROSS SECTIONS ALLOWED.
2. HOT MIX ASPHALT SURFACE AND BINDER COURSE SHALL CONFORM TO IDOT HMA MIX SELECTION TABLE.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS PV, MIN. 3500 PSI (NO FLY ASH ALLOWED).
4. ALL SUBGRADE SHALL HAVE A MINIMUM ILLINOIS BEARING RATIO (IBR) OF 3.0, AND BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR DENSITY (ASTM. D-1557)

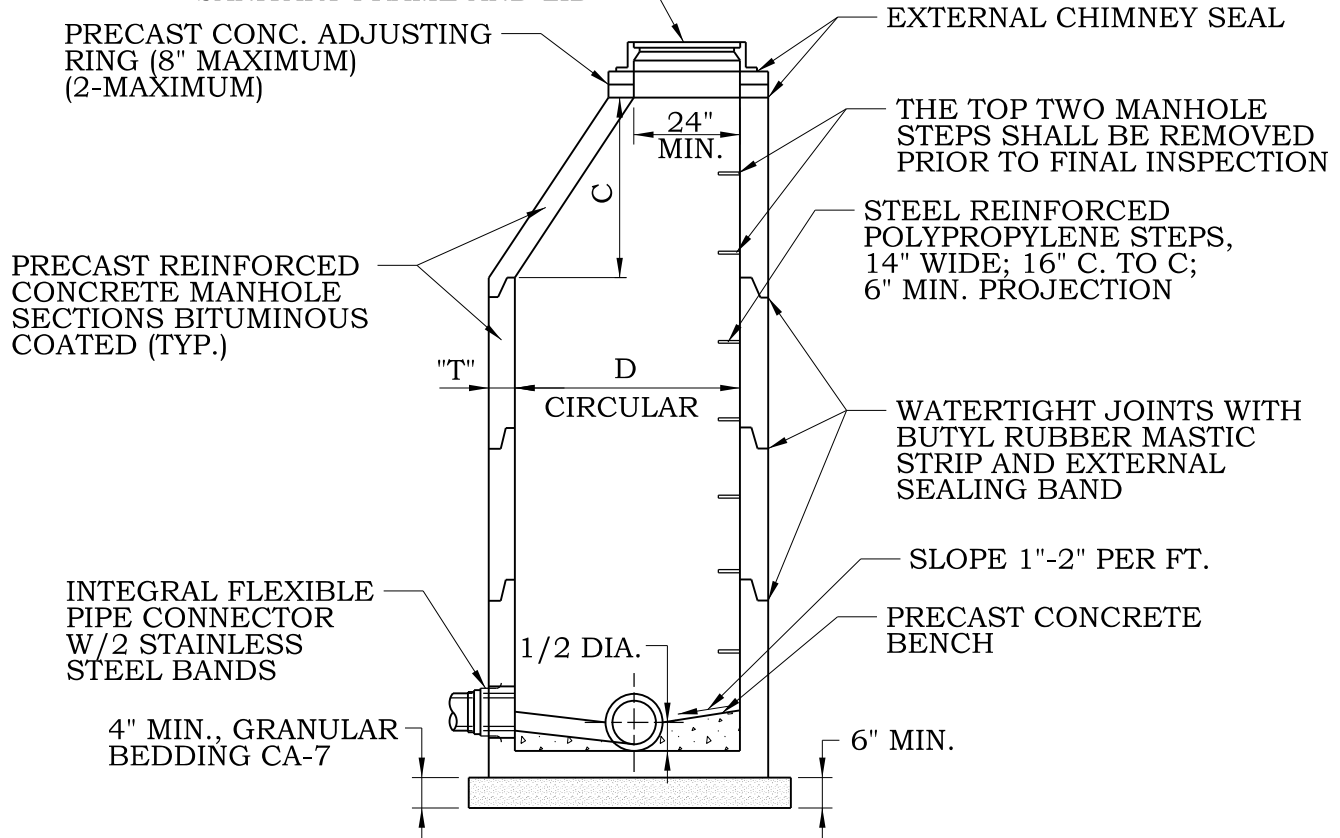


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**MINIMUM PAVEMENT REQUIREMENTS
 PARKING LOTS**

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER PVT-6 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |

VILLAGE OF HUNTLEY
SANITARY FRAME AND LID

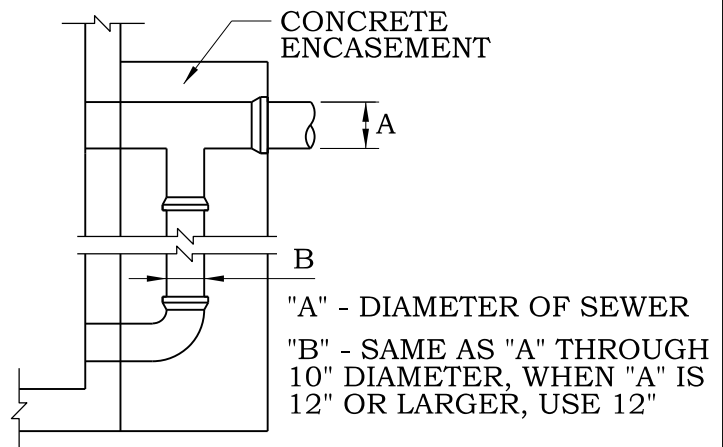


| MATERIALS FOR WALLS | D | C* | T (min.) |
|--|-------|-------|-------------|
| PRECAST REINFORCED CONCRETE SECTION | 4'-0" | 2'-6" | 4" |
| | 5'-0" | 3'-9" | 5" |
| | 6'-0" | 5'-0" | 6" |

* DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".

NOTES

1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING.
2. USE 4'-0" DIAMETER FOR SEWER SIZES THRU 21", 5'-0" DIAMETER FOR SEWER SIZES 24" THRU 30", AND 6'-0" DIAMETER FOR SEWER SIZES GREATER THAN 30" UNLESS OTHERWISE NOTED.
3. USE OUTSIDE DROP WHEN ANY ENTERING SEWER INVERT DIFFERS BY 2'-0" OR MORE FROM INVERT OF MANHOLE.
4. THICKNESS "T"=4" MIN. FOR 4' DIAMETER, 5" MIN. FOR 5' DIAMETER, 6" MIN. FOR 6' DIAMETER.
5. UNLESS OTHERWISE SPECIFIED HEREIN CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STD. SPEC. FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.



"A" - DIAMETER OF SEWER
"B" - SAME AS "A" THROUGH 10" DIAMETER, WHEN "A" IS 12" OR LARGER, USE 12"

OUTSIDE DROP DETAIL

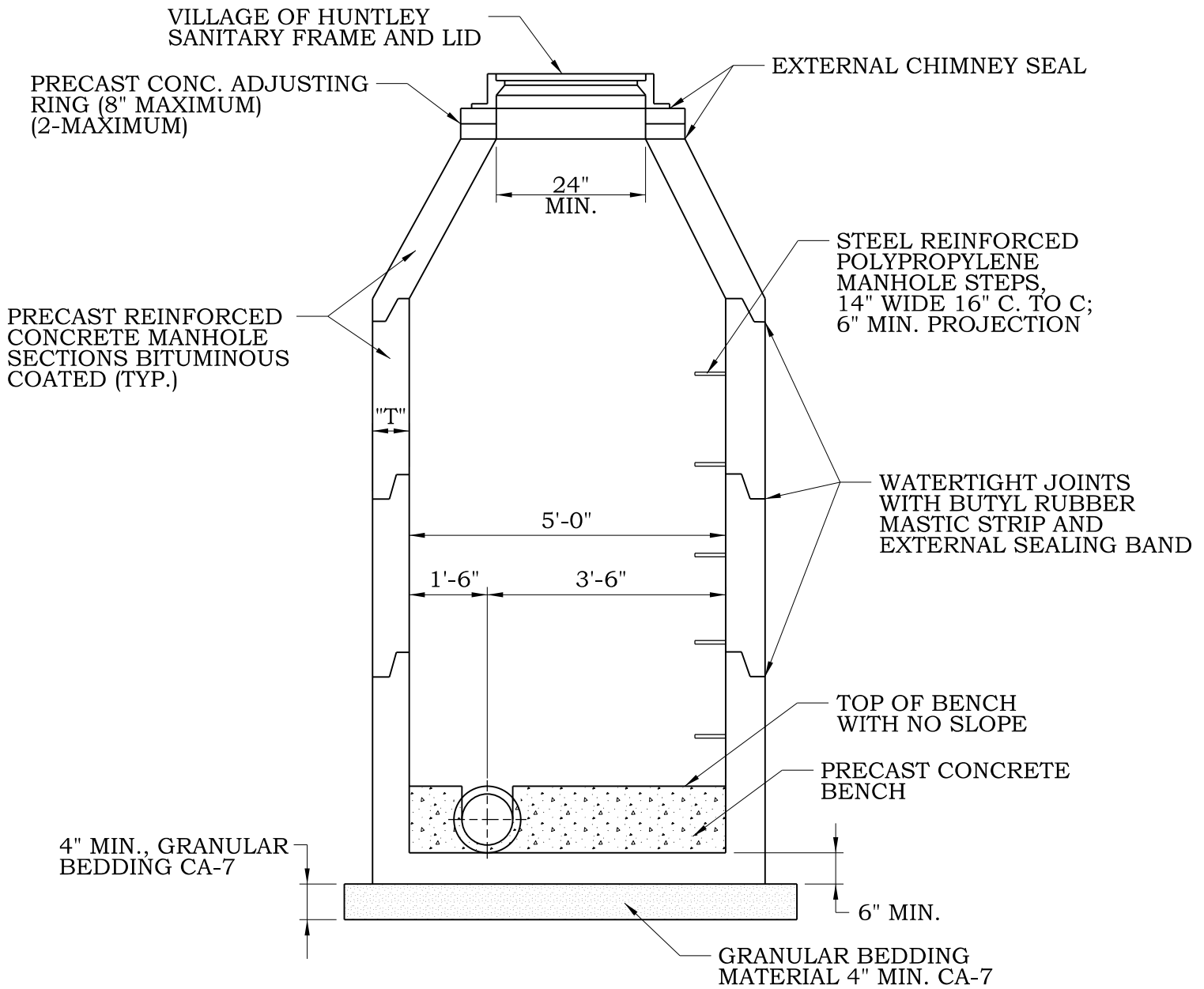


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SANITARY MANHOLE

| | | |
|-------------------|----------------------------|------------------------------------|
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| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



NOTES

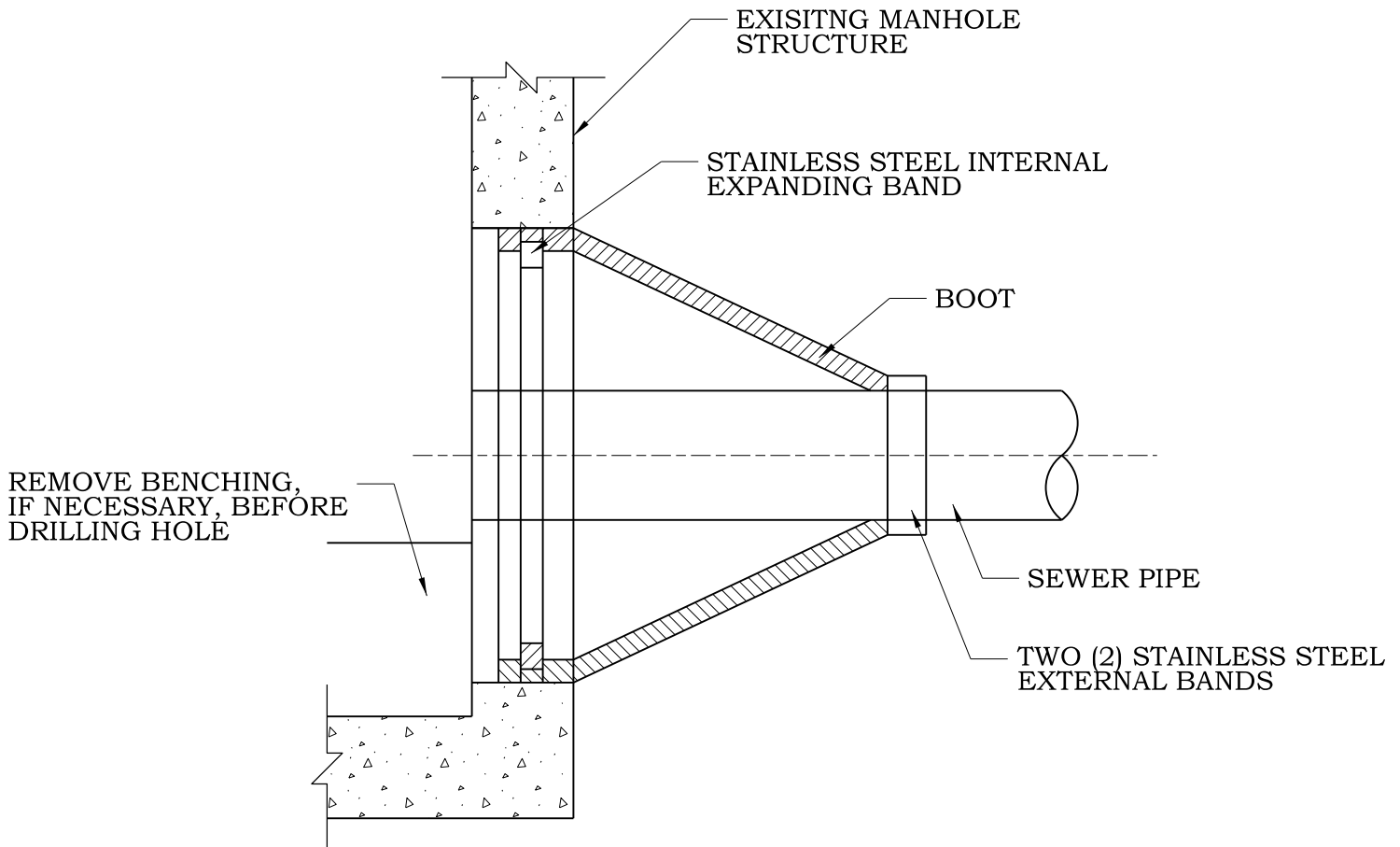
1. ALL PRECAST MANHOLE SECTIONS SHALL BE BITUMINOUS COATED.
2. THE TOP TWO (2) MANHOLE STEPS SHALL BE REMOVED PRIOR TO FINAL INSPECTION.
3. CONCENTRIC CONE REQUIRED.
4. THICKNESS "T" = 5" MINIMUM.
5. INTEGRAL FLEXIBLE PIPE CONNECTOR WITH 2 STAINLESS STEEL BANDS SHALL BE USED.
6. UNLESS OTHERWISE SPECIFIED HEREIN CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STD. SPEC. FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.



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**SANITARY
 MONITORING MANHOLE**

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SAN-2 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



SECTION

NOTES

1. CORE-DRILL CIRCULAR OPENING IN MANHOLE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE.
2. KOR-N-SEAL FLEXIBLE RUBBER BOOT (KOR-N-SEAL I: 106/406 SERIES FOR 12" AND SMALLER; KOR-N-SEAL II: 206 SERIES FOR 15" AND GREATER) SHALL BE USED FOR WATERTIGHT CONNECTION.
3. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW SANITARY SEWER CONNECTION.
4. CLEAN EXISTING MANHOLE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

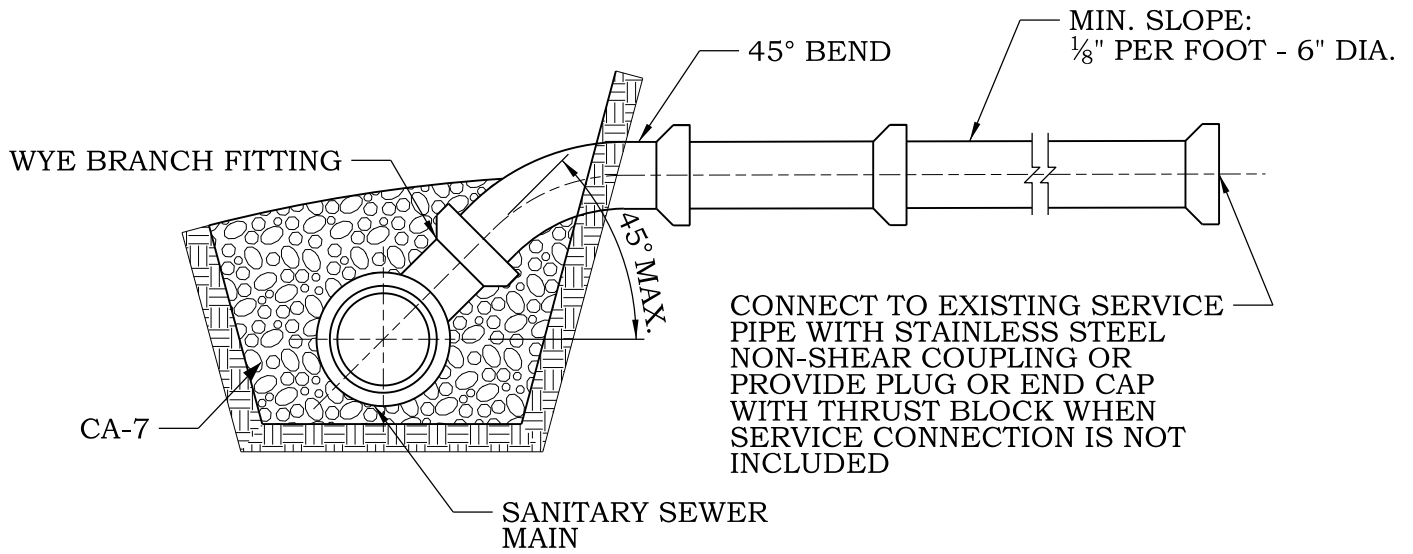


VILLAGE OF HUNTLEY

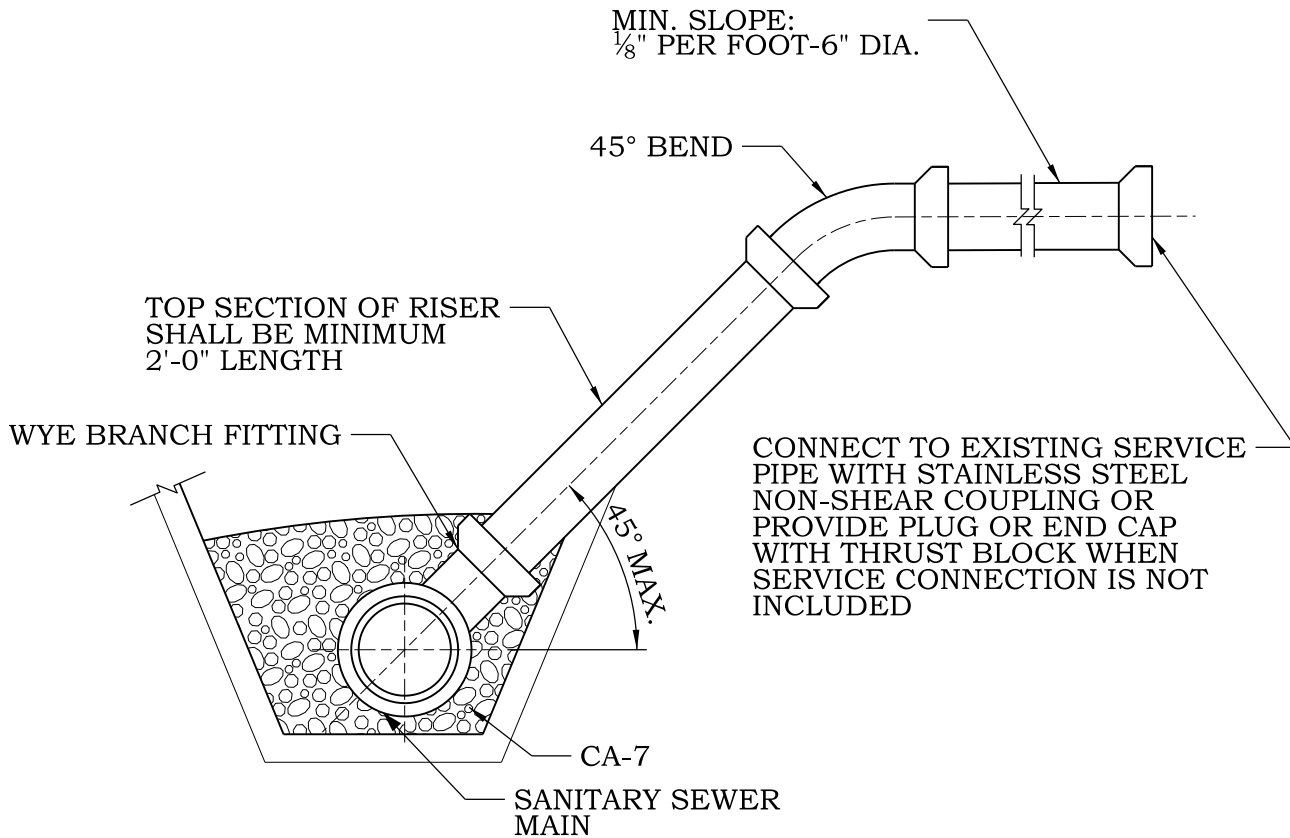
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**SANITARY SEWER CONNECTION
TO EXISTING MANHOLE**

| | | |
|-------------------|----------------------------|------------------------------------|
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| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



FOR SEWER DEPTHS TO 10 FEET



FOR SEWER DEPTHS GREATER THAN 10 FEET

NOTE

1. SERVICE LINES ARE PROHIBITED UNDER DRIVEWAY APPROACHES REGARDLESS OF DEPTH.

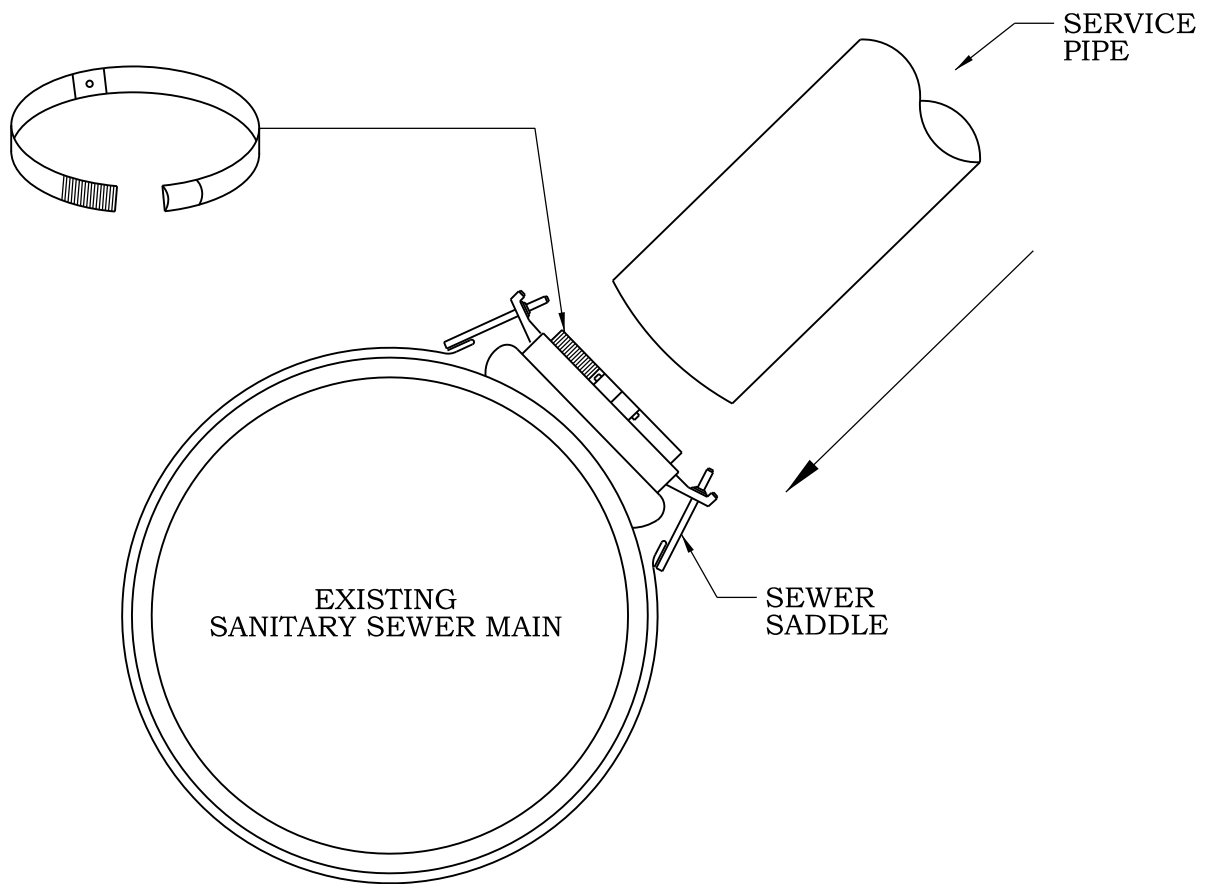


VILLAGE OF HUNTLEY

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SANITARY SERVICE RISER

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SAN-4 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



NOTES:

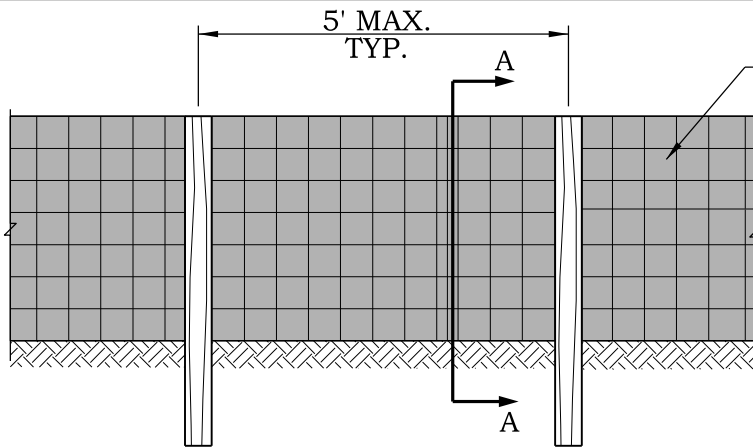
1. DETAIL BASED ON STYLE "CB" SEWER SADDLE, MANUFACTURED BY ROMAC INDUSTRIES INC. THE "CB" "UN" SADDLES ARE PROVIDED WITH BAND CLAMP (HOSE CLAMP) WHICH ALLOWS IT TO HAVE A RANGE. THE BAND CLAMP COMES WITH TWO ADJUSTING SCREWS WHICH PROVIDE MUCH GREATER CLAMPING FORCE THAN BAND CLAMPS WITH ONLY ONE ADJUSTMENT SCREW. THE BAND CLAMP NEEDS TO BE ASSEMBLED AROUND THE OUTLET AND BOTH ADJUSTING SCREWS TIGHTENED EVENLY.
2. THE HOLE CUT IN THE MAIN SHOULD BE NO LARGER THAN THE INSIDE DIAMETER OF THE SADDLE GASKET.
3. TAKE EXTRA CARE TO FOLLOW PROPER TIGHTENING PROCEDURES AND TORQUE RECOMMENDATIONS:
 15-20 FT./LB FOR 6"-12" MAINS AND
 20-30 FT./LB FOR 14"-48" MAINS
 (WAIT 10 MINUTES AND RETORQUE).
4. ALL METAL HARDWARE MATERIAL SHALL BE STAINLESS STEEL.



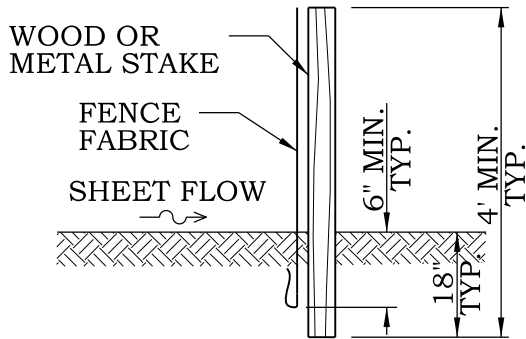
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**SANITARY SEWER
 SADDLE CONNECTION**

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SAN-5 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |

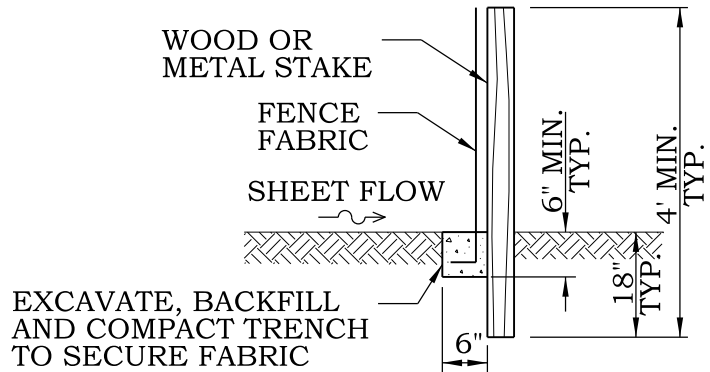


WOVEN WIRE FENCE OPTIONAL EXCEPT WHEN REQUIRED BY THE VILLAGE ENGINEER TO PROTECT SENSITIVE NATURAL RESOURCES OR STORM WATER MANAGEMENT FACILITIES. (MIN. 14 GAUGE, MAX. 6" MESH SPACING FASTEN WITH MIN. 10 GAUGE WIRE, 4 PER POST)



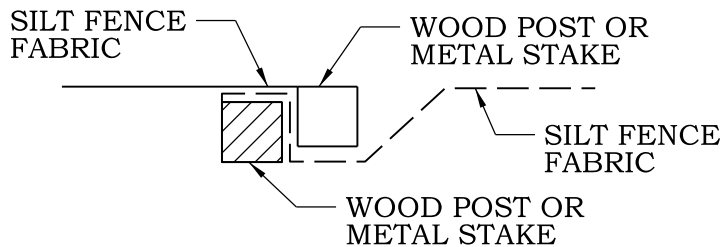
SLICE METHOD

SECTION A-A

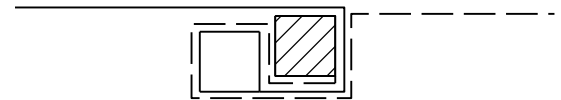


EXCAVATE, BACKFILL AND COMPACT TRENCH TO SECURE FABRIC

TRENCH METHOD



STEP 1



ROTATE POSTS TOGETHER 180° CLOCKWISE AND DRIVE BOTH POSTS 18" INTO GROUND.

STEP 2

ATTACHING TWO SILT FILTER FENCES

NOTES:

1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. TEMPORARY SILT FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS 1 WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL (EITHER "T" OR "U" TYPE) OR WOOD WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

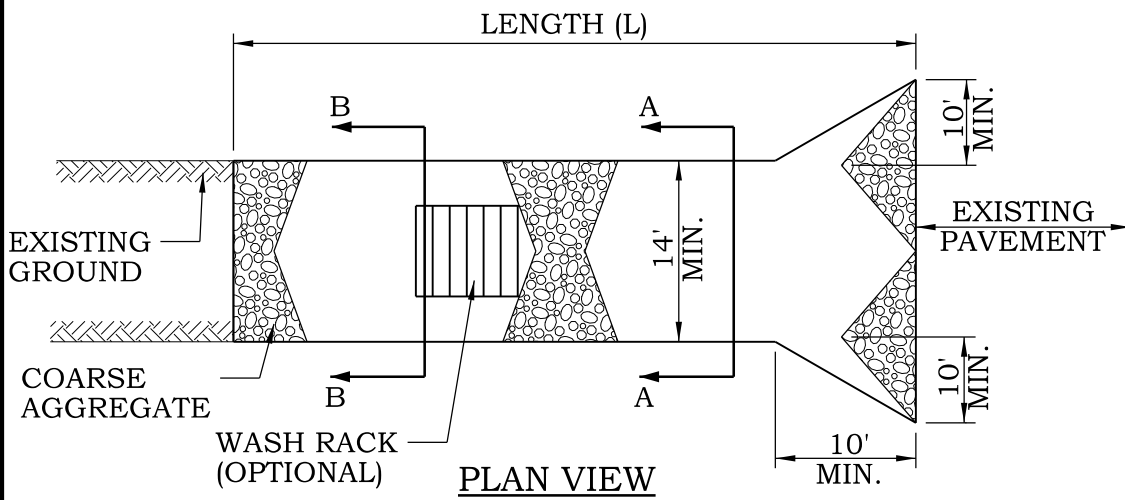


VILLAGE OF HUNTLEY

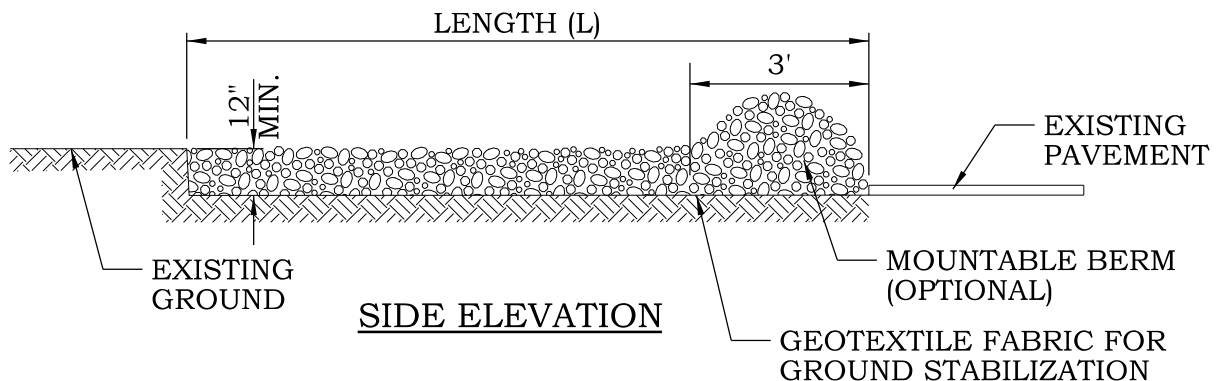
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SILT FENCE

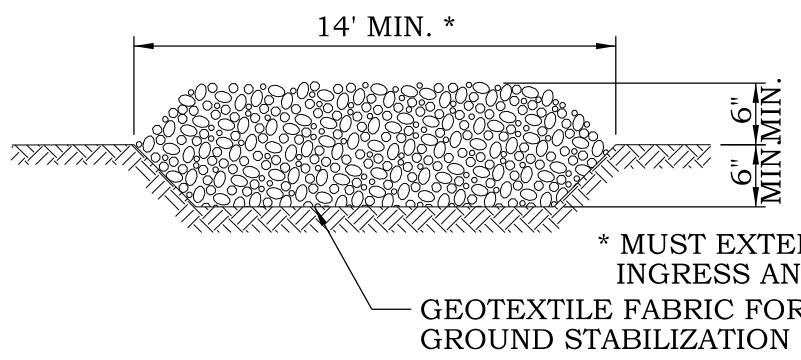
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|-------------------|----------------------------|-------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SESC-1 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



PLAN VIEW

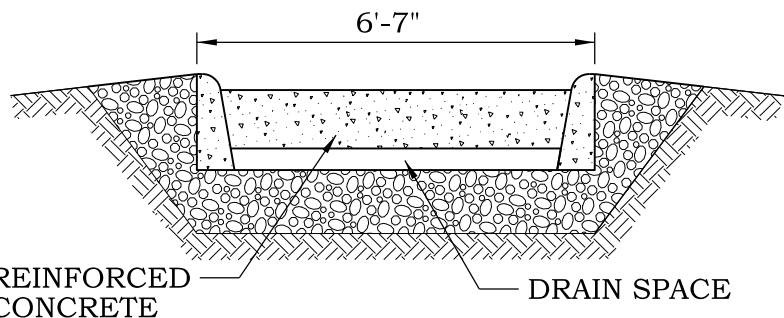


SIDE ELEVATION



SECTION A-A

* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION.



SECTION B-B

NOTES

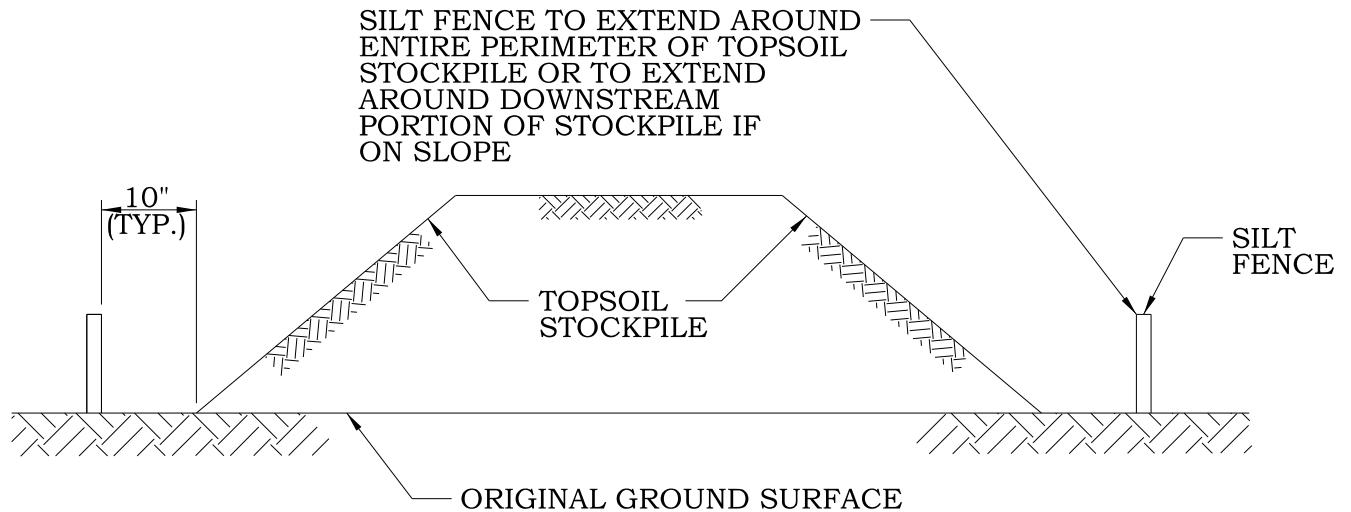
1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACEMENT OF AGGREGATE.
2. AGGREGATE OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3, OR CA-4.
3. LENGTH (L) SHALL BE A MINIMUM OF 100 FT. EXCEPT FOR SINGLE FAMILY LOTS WHERE 30 FT. SHALL BE REQUIRED.



VILLAGE OF HUNTLEY
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STABILIZED CONSTRUCTION ENTRANCE

| | | |
|----------|---------------|----------------|
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| NTS | CBBEL/TPF | |
| DATE: | REVISED: | |
| 1/1/2016 | 1/1/2016 | SESC-2 |



NOTES

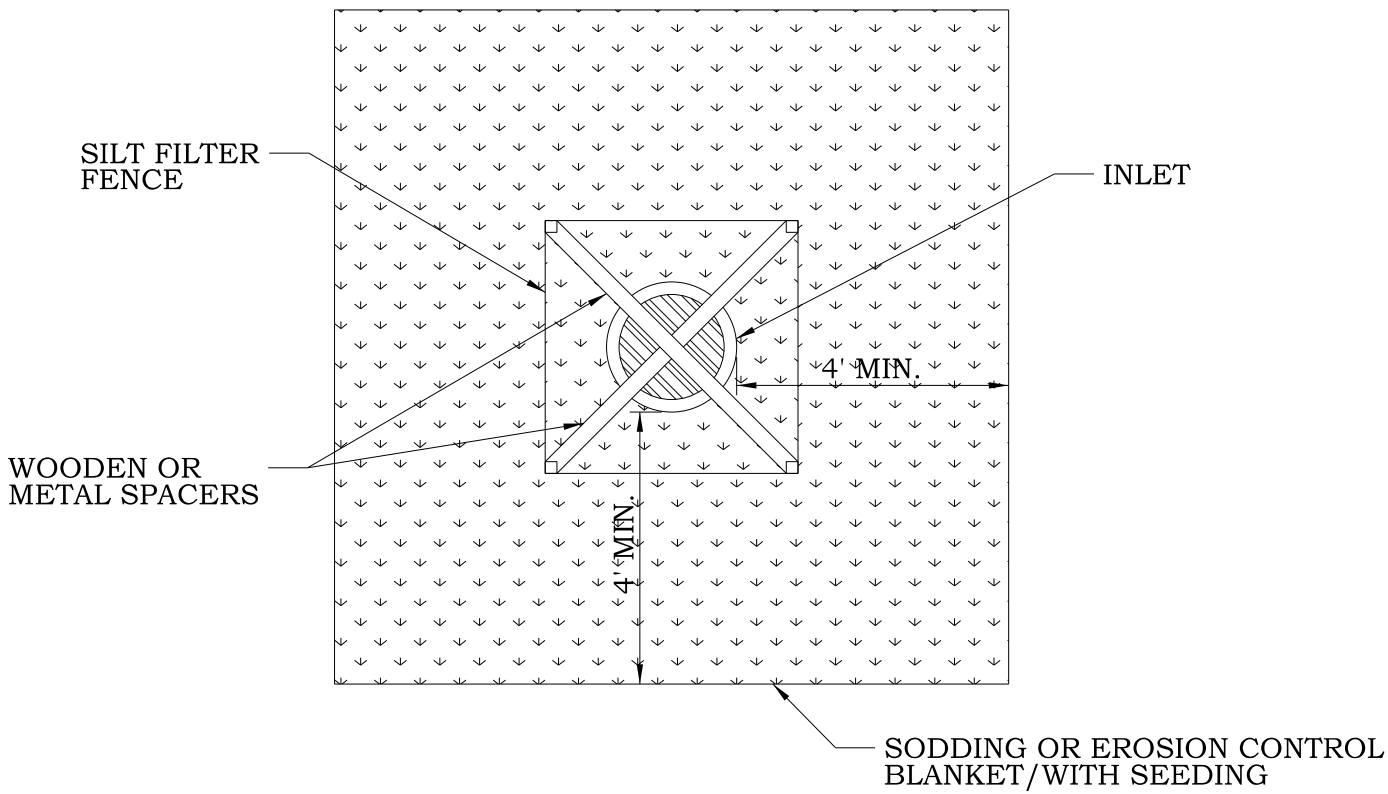
1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.
2. REFERENCE THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
5. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SILT FENCE SHALL BE REMOVED ONLY WHEN DIRECTED BY THE VILLAGE.



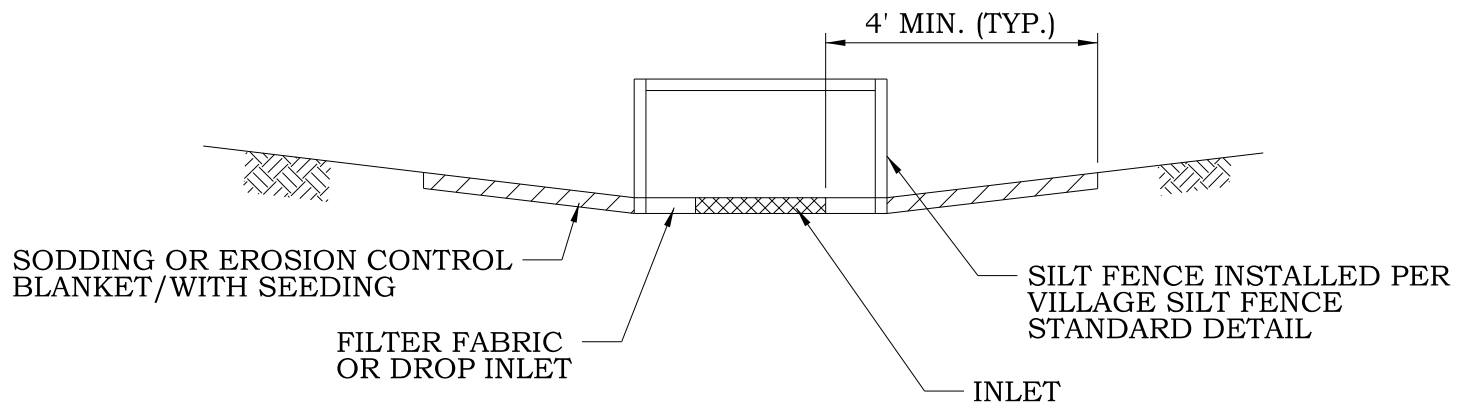
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TEMPORARY TOPSOIL STOCKPILE

| | | |
|-------------------|----------------------------|-------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SESC-3 |
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PLAN



SECTION

NOTE

1. THE SODDING OR SEEDING/WITH BLANKET SHOULD BE FLUSH WITH SURROUNDING GROUND SURFACE.



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| AREA INLET PROTECTION | | |
|-----------------------|----------------------------|-------------------------------------|
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| DATE: 1/1/2016 | REVISED: 1/1/2016 | |

| | STANDARD | DESCRIPTION |
|------------------------------|--|--|
| EROSION CONTROL BLANKET | IUM-530 IUM-531 | EROSION CONTROL BLANKET EROSION CONTROL BLANKET, TURF REINFORCEMENT MAT (TRM) |
| INLET PROTECTION | IUM-531 IUM-531 IUM-561C IUM-561D IUM-562 | MANUFACTURED ABOVE GRADE MONOFILAMENT FABRIC BARRIER FENCE IMPERVIOUS AREAS CURB PROTECTION PAVED AREAS DROP-IN PROTECTION LOG TYPE |
| END SECTION INLET PROTECTION | IL-508ST IL-610 IL-611 | CULVERT INLET PROTECTION - STONE PIPE OUTLET TO FLAT AREA PIPE OUTLET TO CHANNEL |
| DITCH CHECK | IUM-514PC IUM-514RC IUM-514SC IUM-514UF IUM-514VC IL-605CA IL-605R | PLASTIC PERMEABLE ROLLED EROSION CONTROL SYNTHETIC POROUS CONTROL URETHANE FOAM GEOTEXTILES VEGETATED EROSION CONTROL ROCK CHECK DAM - COARSE AGGREGATE ROCK CHECK DAM - RIP RAP |
| DEWATERING | IL-650 | SUMP PIT PLAN |
| CONCRETE WASHOUT | IUM-654BW IUM-654ET IUM-654SB | TEMPORARY CONCRETE WASHOUT - BARRIER WALL TEMPORARY CONCRETE WASHOUT - EARTHEN TEMPORARY CONCRETE WASHOUT - STRAW BALE |
| GENERAL | IUM-501 | BACK CUT CURB |

NOTE:

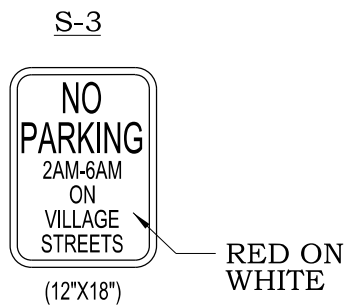
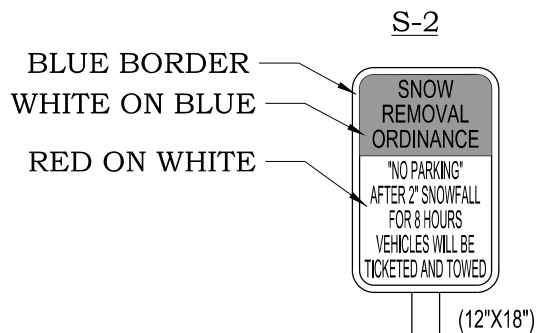
- STANDARDS PER THE NATURAL RESOURCES CONSERVATION SERVICE AS PUBLISHED IN THE ILLINOIS URBAN MANUAL, LATEST EDITION. FOUND AT: <https://illinoisurbanmanual.org>



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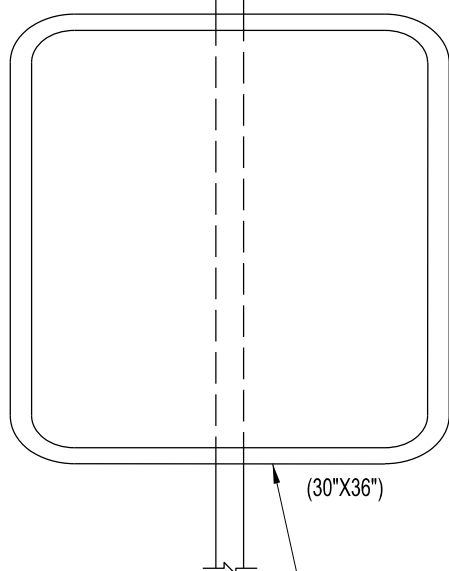
**ILLINOIS URBAN MANUAL
EROSION CONTROL SYSTEMS**

| | | |
|-------------------|----------------------------|-------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SESC-6 |
| DATE: 1/1/2016 | REVISED: 3/9/2021 | |

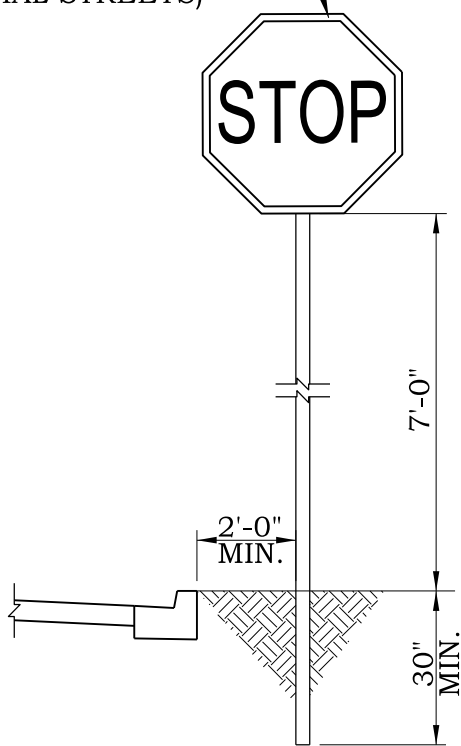


ALL SIGNS SHALL MEET CURRENT MUTCD REFLECTIVITY REQUIREMENTS

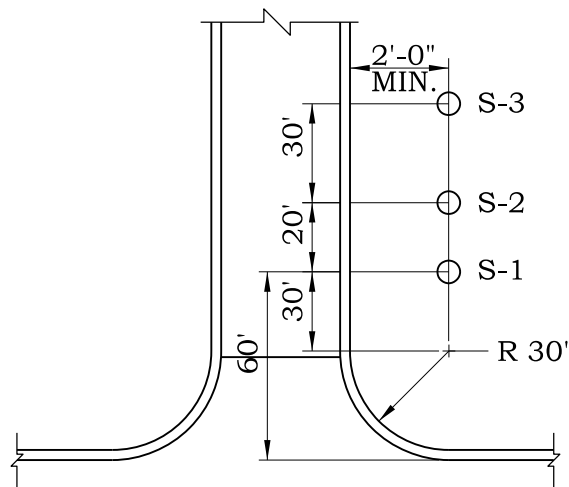
POSTS SHALL BE TELESCOPING STEEL TELESPAR, OR APPROVED EQUAL.



36" OCTAGONAL AT INTERSECTIONS WITH COLLECTOR OR ARTERIAL STREETS (30" ON RESIDENTIAL STREETS)



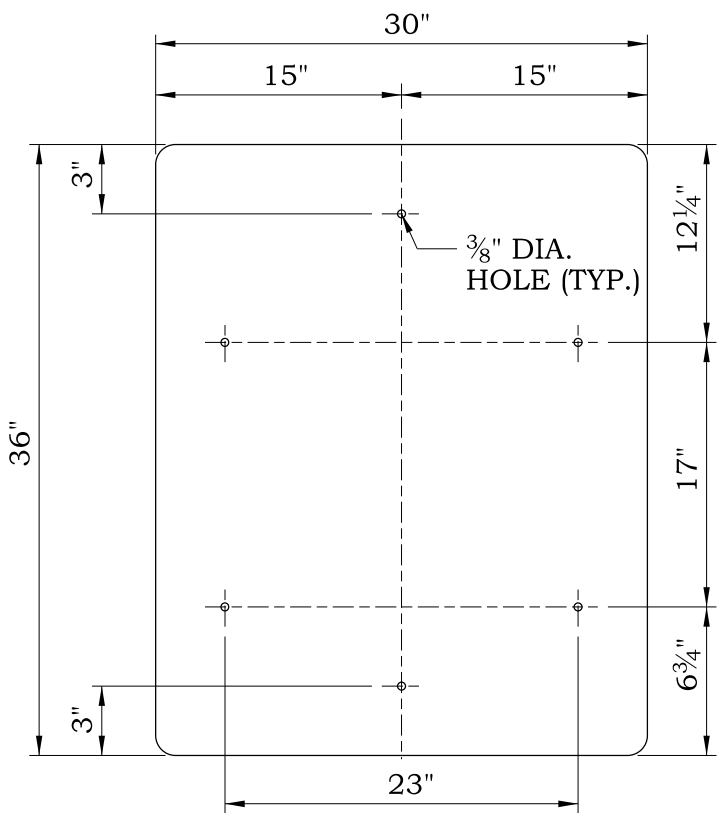
TYPICAL STOP SIGN DETAIL



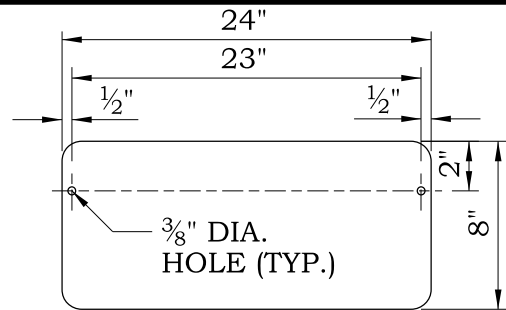
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TYPICAL SIGN PLACEMENT AT SUBDIVISION ENTRANCE

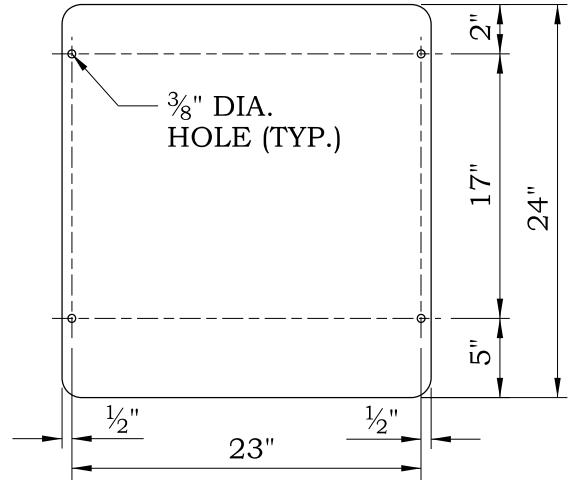
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| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER SGN-1 |
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BASE SIGN
(30"X36")

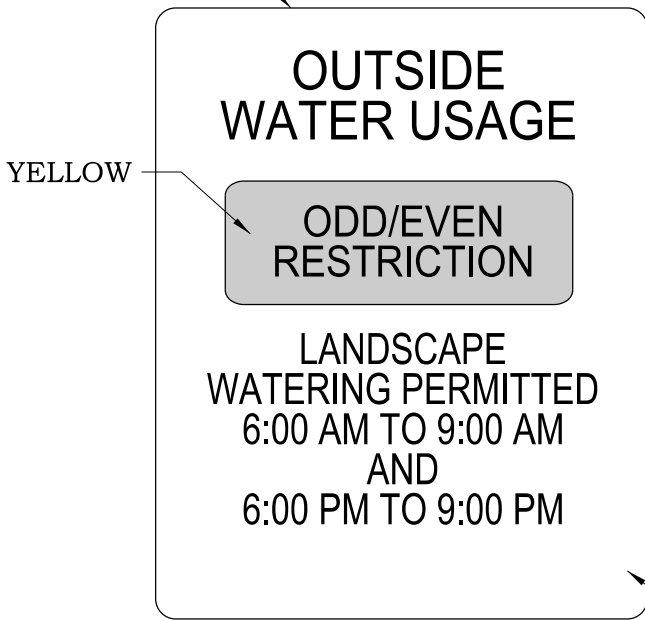


SIGN OVERLAY 1
(24"X8")



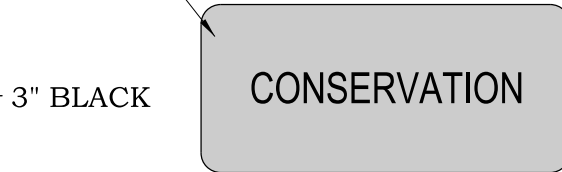
SIGN OVERLAY 2
(24"X24")

3/4" BORDER
BLACK

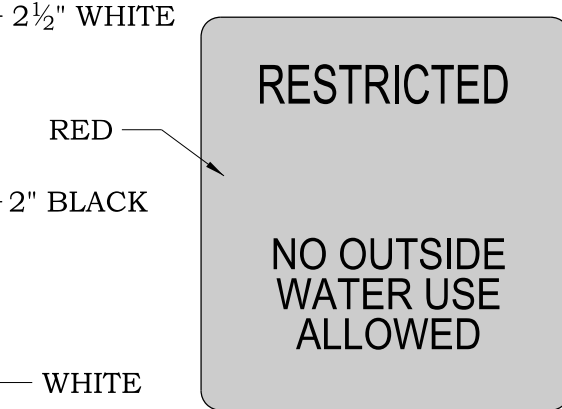


BASE SIGN

GREEN



SIGN OVERLAY 1



SIGN OVERLAY 2

ALL SIGNS SHALL MEET CURRENT MUTCD REFLECTIVITY.

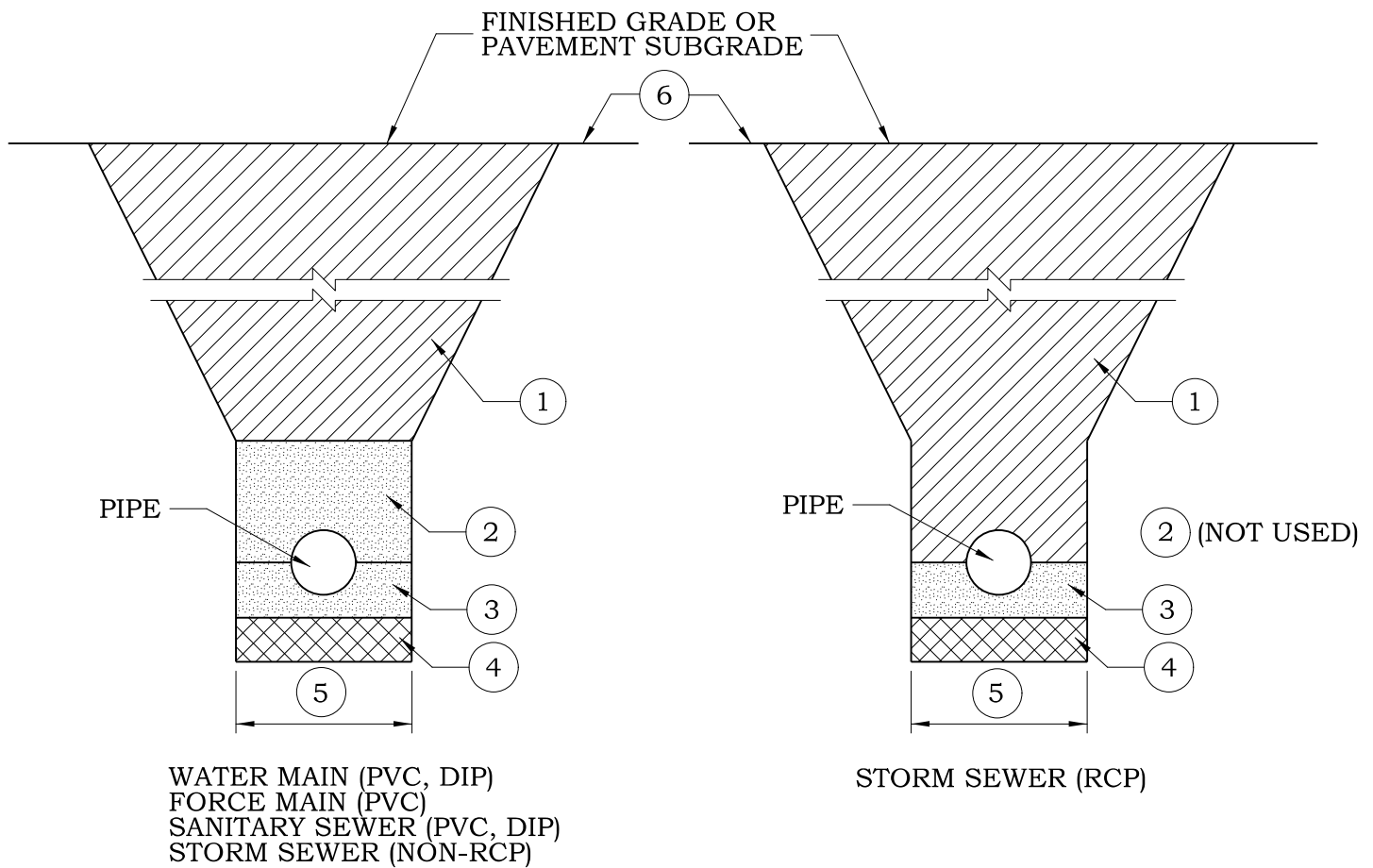
POSTS SHALL BE TELESCOPING STEEL TELES PAR, OR APPROVED EQUAL.



VILLAGE OF HUNTLEY
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WATER RESTRICTION SIGNAGE

| | | |
|-------------------|----------------------------|------------------------------------|
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| DATE: 1/1/2016 | REVISED: 1/1/2016 | |



NOTES

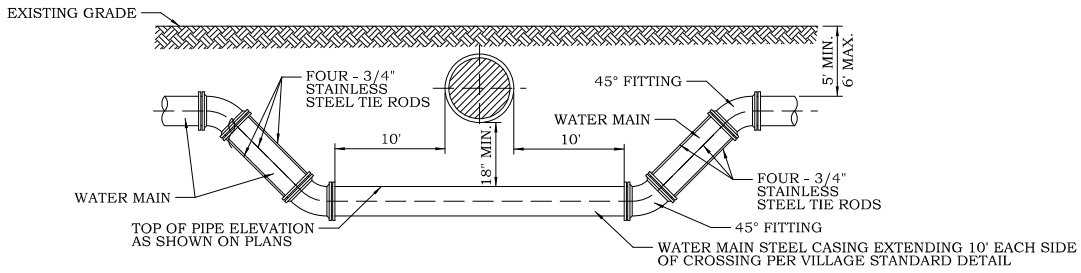
1. FINAL BACKFILL MATERIAL CA-6 PER IDOT STANDARD SPECIFICATION ARTICLE 208 TO SUBGRADE AND WITHIN 2 FEET HORIZONTAL OF PROPOSED PAVEMENT, DRIVEWAY, SIDEWALK OR CURB AND GUTTER. 12" MAX. LIFT THICKNESS COMPACTED TO 90% STANDARD PROCTOR DENSITY. CLSM MAY BE USED WHERE DIRECTED BY ENGINEER. IN NON-STRUCTURAL AREAS BACKFILL WITH APPROVED EXCAVATED MATERIALS AND 6" MINIMUM OF TOPSOIL.
2. INITIAL BACKFILL TO 12" OVER TOP OF PIPE. MATERIAL SHALL MATCH PIPE BEDDING.
3. PIPE BEDDING MATERIAL AS FOLLOWS:
WATER MAIN AND FORCE MAIN: FA-1, FA-2, FA-6 OR FA-21.
SANITARY SEWER AND STORM SEWER: CA-7.
4. UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED TO A DEPTH AS DIRECTED BY ENGINEER. ADDITIONAL BEDDING MATERIAL THICKNESS AND GRADATION AS DIRECTED BY ENGINEER.
5. TRENCH WIDTH:
12" + OD + 12" WHEN DEPTH TO TRENCH BOTTOM \leq 5 FT.
18" + OD + 18" WHEN DEPTH TO TRENCH BOTTOM $>$ 5 FT.
6. HMA SURFACES AND BASES SHALL BE FULL DEPTH SAW CUT 12" BEYOND EDGE OF TRENCH. PAVEMENT SHALL BE RESTORED IN ACCORDANCE WITH VILLAGE STANDARD PAVEMENT DETAILS.
7. CONTRACTORS SHALL COMPLY WITH THE LATEST OSHA STANDARDS INCLUDING, BUT NOT LIMITED TO:
SLOPING AND BENCHING TRENCH WALLS;
TRENCH SUPPORT AND SHORING SYSTEMS;
SHIELD SYSTEMS; AND
HAZARDOUS ATMOSPHERES.



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TYPICAL TRENCH CROSS SECTIONS

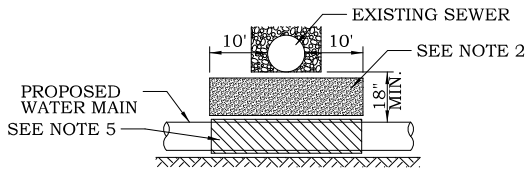
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PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTES:

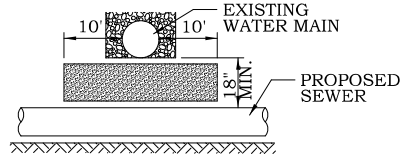
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
4. CLASS IV MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.
5. USE STEEL CASING WITH PROPOSED WATER MAIN AND SEAL ENDS OF THE CASING.



PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM SEPARATION.

NOTES:

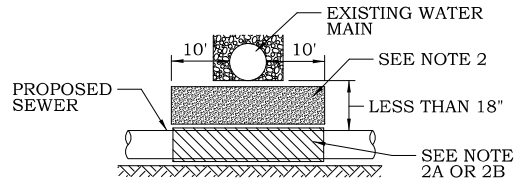
1. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
2. MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10 FEET HORIZONTALLY.



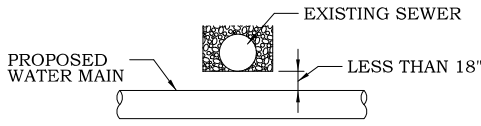
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" MINIMUM SEPARATION.

NOTES:

1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN.
- 2A. CONSTRUCT PROPOSED SEWER WITH WATER MAIN QUALITY PIPE AND PRESSURE TEST, OR
- 2B. USE STEEL CASING WITH PROPOSED SEWER AND SEAL ENDS OF CASING /
3. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
4. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
5. CLASS IV MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

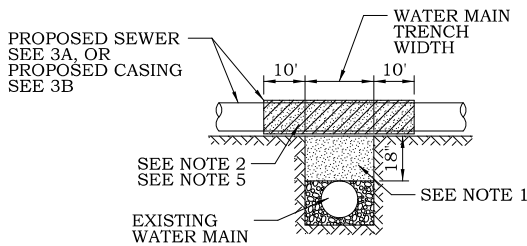


PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH LESS THAN 18" MINIMUM SEPARATION.



NOT ALLOWED
MUST MAINTAIN 18" VERTICAL SEPARATION

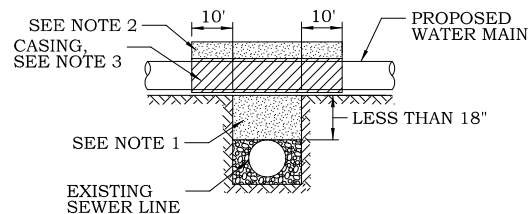
EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION.



NOTES:

1. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN.
- 3A. CONSTRUCT PROPOSED SEWER WITH WATER MAIN QUALITY PIPE AND PRESSURE TEST, OR
- 3B. USE STEEL CASING WITH PROPOSED SEWER AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
6. CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" MINIMUM SEPARATION.



NOTES:

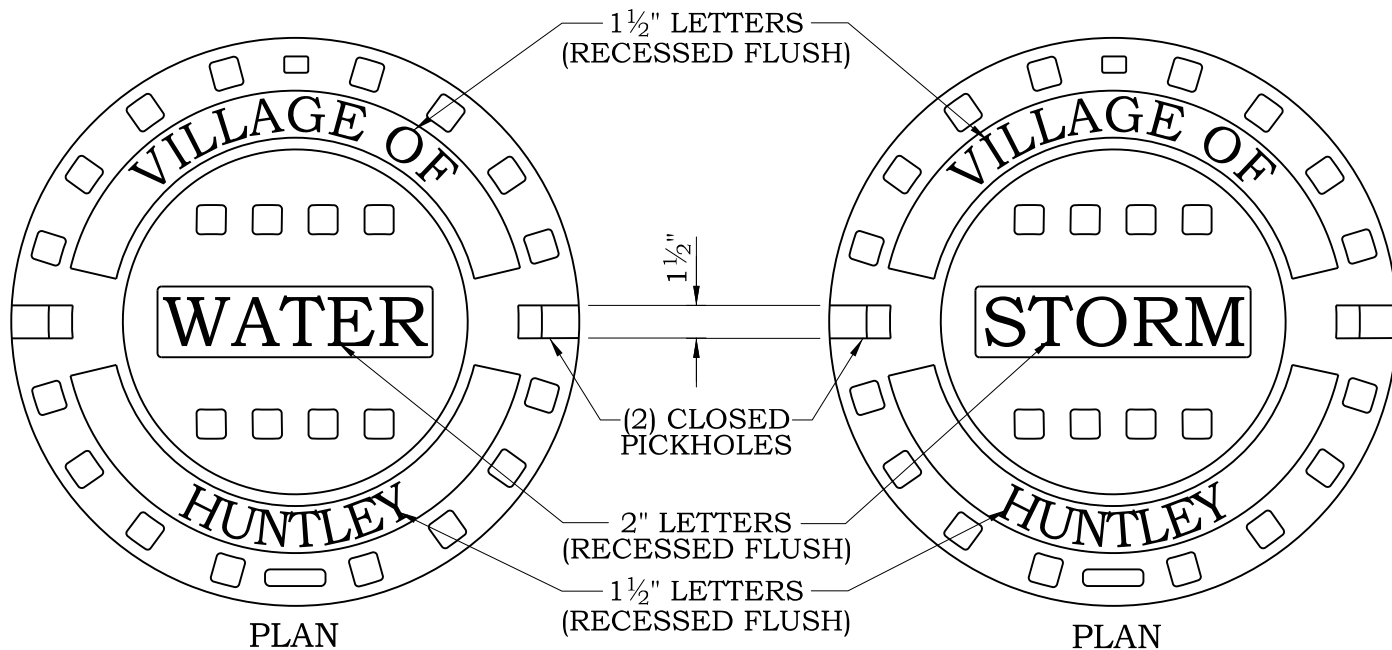
1. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
3. USE A STEEL CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN AND SEWER.
5. CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.



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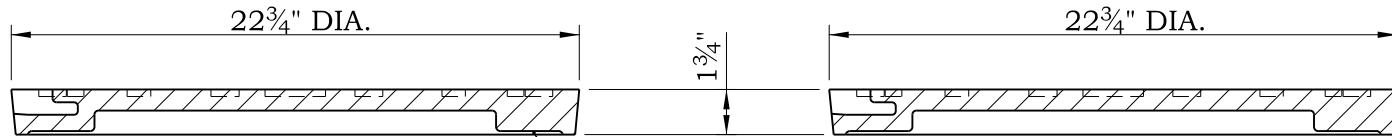
SEWER AND WATER SEPARATION REQUIREMENTS

| | | |
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| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
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| 1/1/2016 | 3/9/2021 | |



PLAN

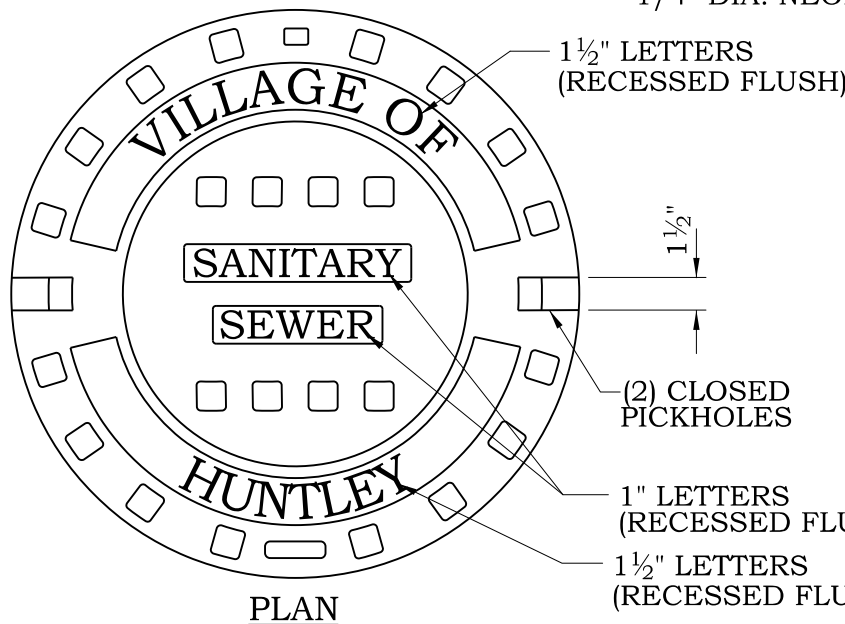
PLAN



SECTION

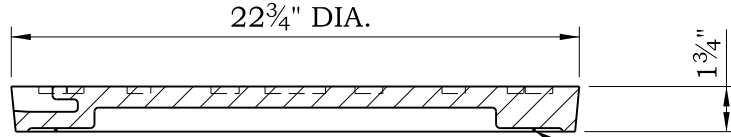
SECTION

1/4" DIA. NEOPRENE GASKET



PLAN

NOTE:
 STRUCTURES TO BE MAINTAINED BY VILLAGE SHALL UTILIZE COVERS AS SHOWN. ALL PRIVATELY MAINTAINED STRUCTURES SHALL USE COVERS OMITTING "VILLAGE OF HUNTLEY". CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE APPROPRIATE COVERS FOR ALL STRUCTURES.



SECTION

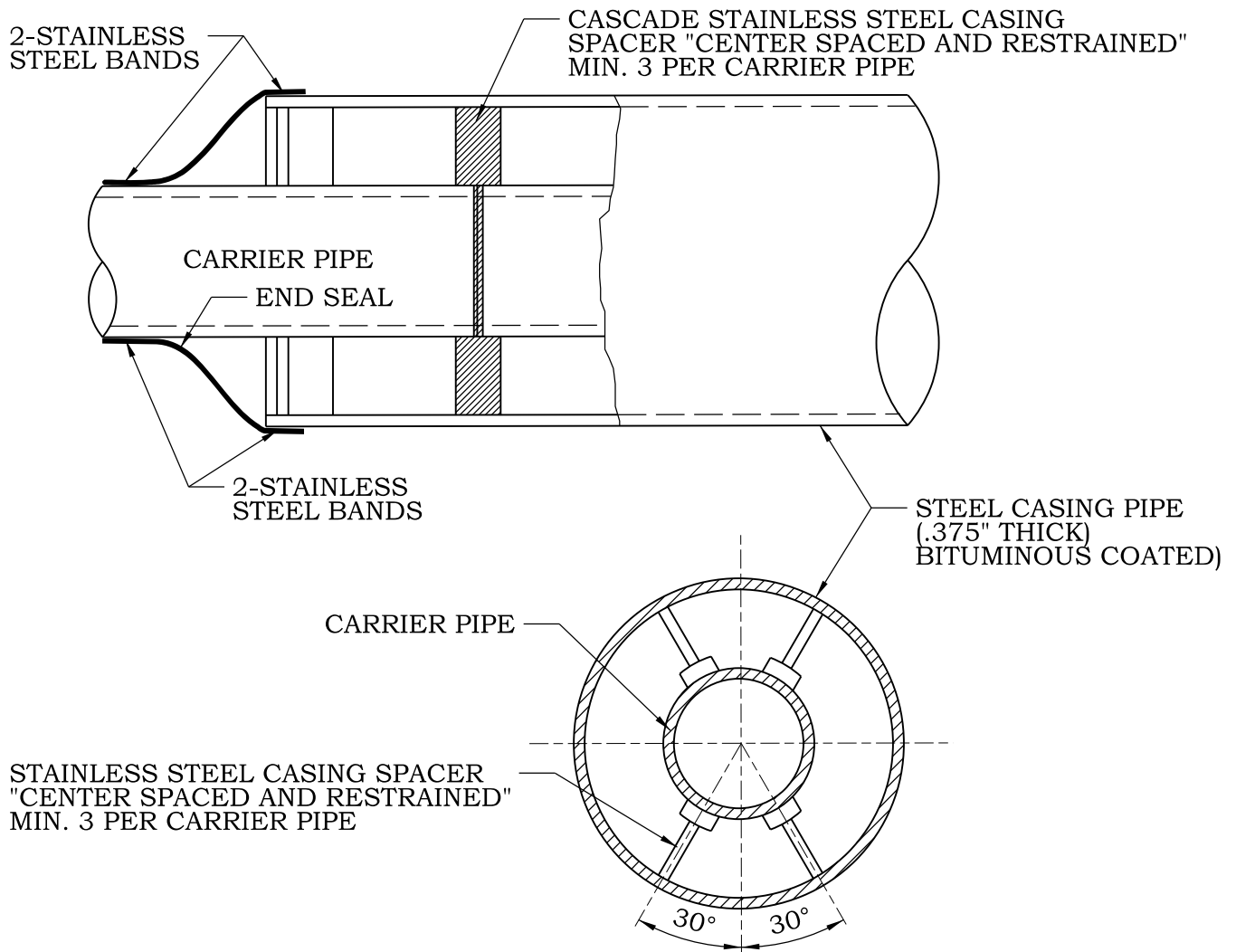
1/4" DIA. NEOPRENE GASKET



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MANHOLE COVER

| | | |
|-------------------|---------------------------|------------------------------------|
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NOTES:

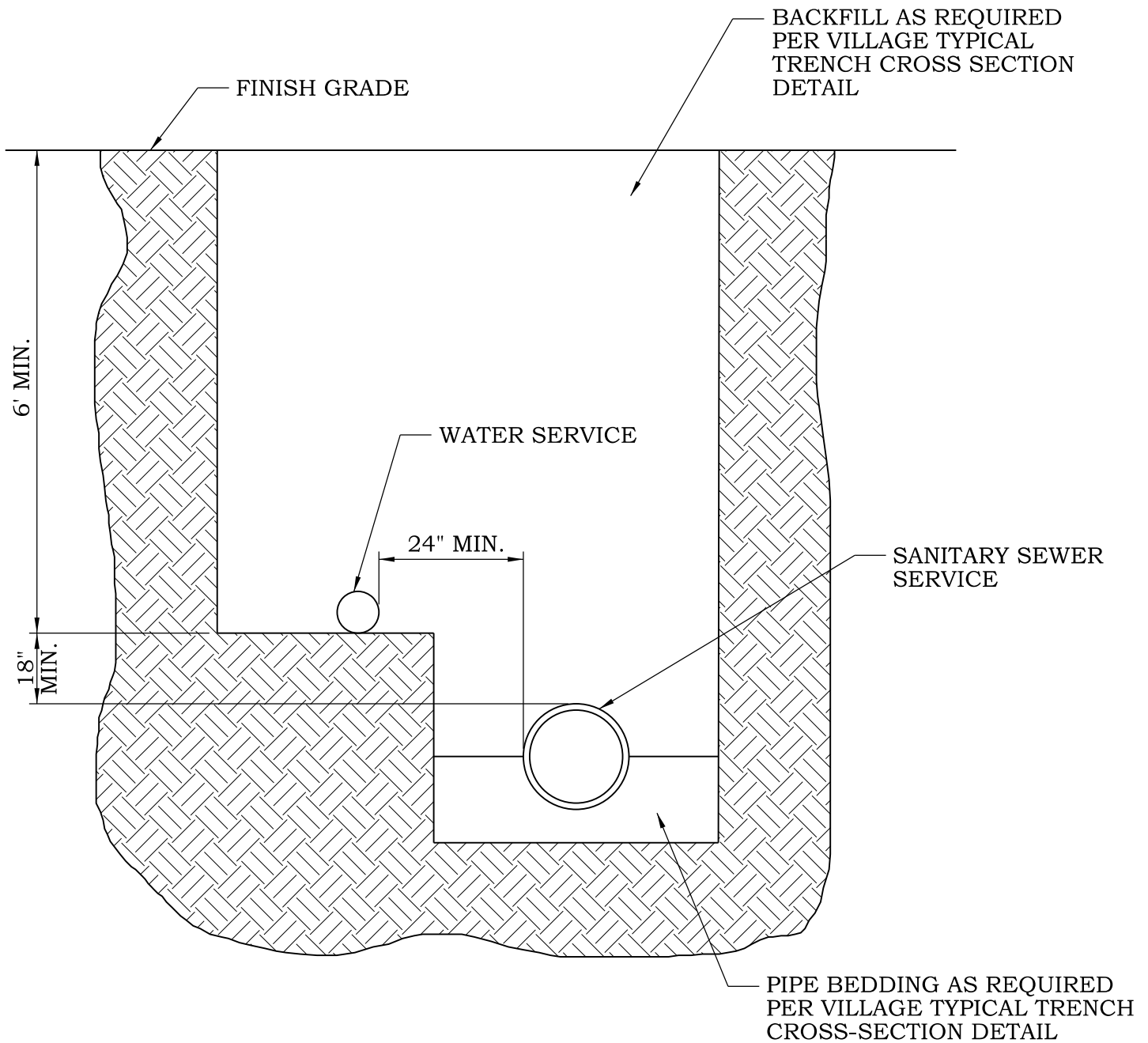
1. THE PIPE MATERIAL SHALL BE "CENTER SPACED AND RESTRAINED" ON TOP AND BOTTOM UTILIZING CASING SPACERS EQUALLY SPACED PER MANUFACTURER SPECIFICATIONS.
2. CASING SPACERS ARE TO BE CASCADE MFG. BRAND OR APPROVED EQUAL.
3. STEEL CASING PIPE SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) B36.10 WITH A YIELD STRENGTH OF 35,000 PSI, 0.375" MINIMUM WALL THICKNESS.
4. IF REQUIRED, WELDS SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1 AND BE CONTINUOUS CIRCUMFERENTIAL WELDS. THE STEEL CASING PIPE SHALL HAVE A BITUMINOUS COAT ON THE INSIDE AND OUTSIDE SURFACE IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO) M190.
5. CASING END SEALS SHALL BE SYNTHETIC RUBBER WITH STAINLESS STEEL BANDING AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO. - MODEL CCES, OR APPROVED EQUAL.
6. ALL CARRIER PIPE BELL AND SPIGOT JOINTS WITHIN CASING AND THE FIRST CARRIER PIPE BELL AND SPIGOT JOINT OUTSIDE EACH END OF THE STEEL CASING SHALL BE INSTALLED WITH JOINT RESTRAINTS, "FIELD LOK 350 GASKETS" OR APPROVED EQUAL.



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CASING PIPE

| | | |
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| NTS | CBBEL/TPF | |
| DATE: | REVISED: | UTL-4 |
| 1/1/2016 | 1/1/2016 | |



NOTES:

1. THE WATER SERVICE PIPING AND BUILDING SEWER PIPING MAY BE INSTALLED IN A COMMON TRENCH PROVIDED THAT THE WATER SERVICE PIPE IS PLACED ON A SHELF A MINIMUM OF EIGHTEEN (18) INCHES ABOVE AND TWENTY FOUR (24) INCHES HORIZONTALLY FROM THE BUILDING SEWER PIPING.
2. SERVICES PROHIBITED UNDER DRIVEWAY APPROACHES.



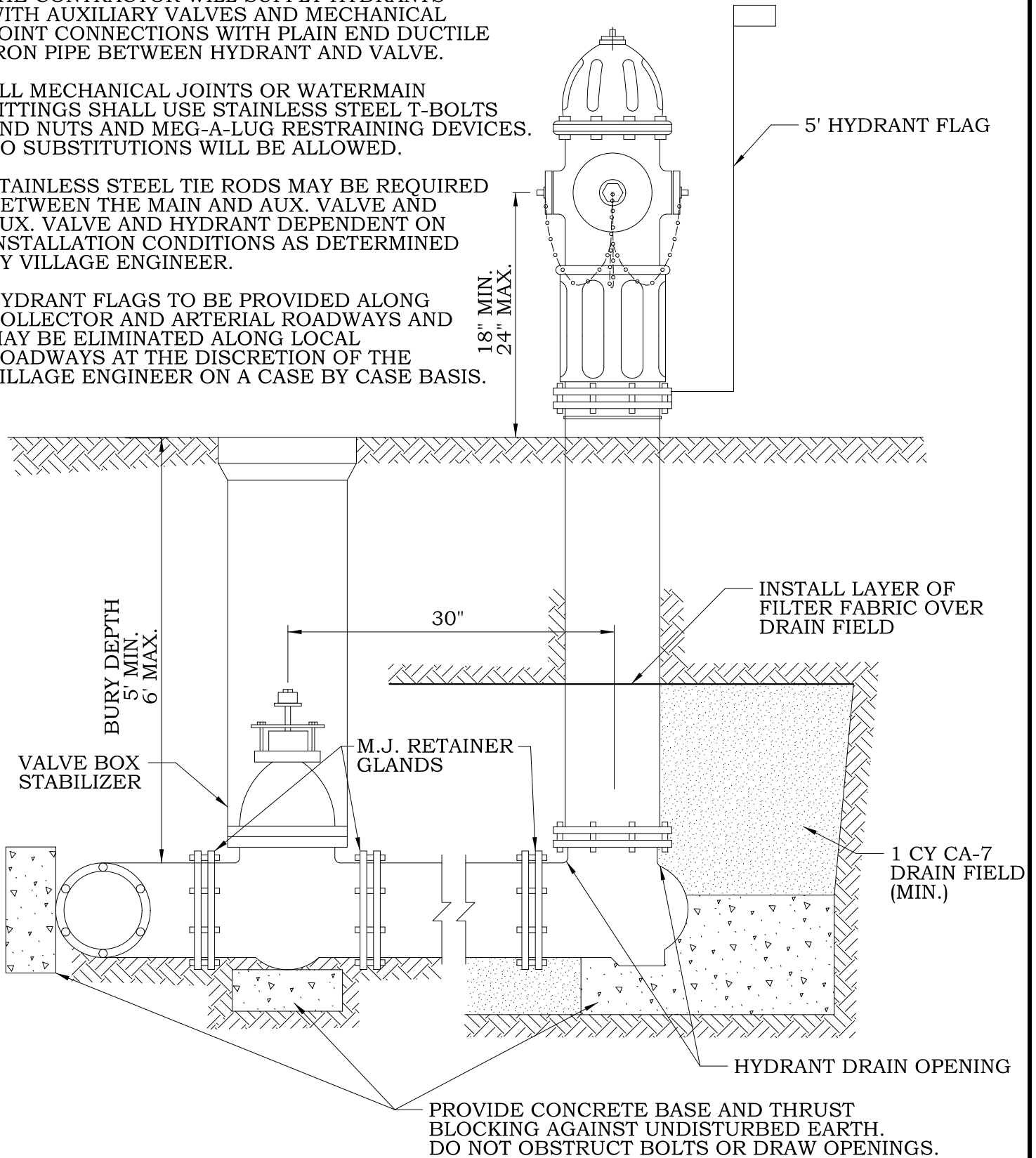
VILLAGE OF HUNTLEY
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COMMON WATER/SANITARY SERVICE TRENCH

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER UTL-5 |
| DATE: 1/1/2016 | REVISED: 1/1/2016 | |

NOTES

1. THE CONTRACTOR WILL SUPPLY HYDRANTS WITH AUXILIARY VALVES AND MECHANICAL JOINT CONNECTIONS WITH PLAIN END DUCTILE IRON PIPE BETWEEN HYDRANT AND VALVE.
2. ALL MECHANICAL JOINTS OR WATERMAIN FITTINGS SHALL USE STAINLESS STEEL T-BOLTS AND NUTS AND MEG-A-LUG RESTRAINING DEVICES. NO SUBSTITUTIONS WILL BE ALLOWED.
3. STAINLESS STEEL TIE RODS MAY BE REQUIRED BETWEEN THE MAIN AND AUX. VALVE AND AUX. VALVE AND HYDRANT DEPENDENT ON INSTALLATION CONDITIONS AS DETERMINED BY VILLAGE ENGINEER.
4. HYDRANT FLAGS TO BE PROVIDED ALONG COLLECTOR AND ARTERIAL ROADWAYS AND MAY BE ELIMINATED ALONG LOCAL ROADWAYS AT THE DISCRETION OF THE VILLAGE ENGINEER ON A CASE BY CASE BASIS.

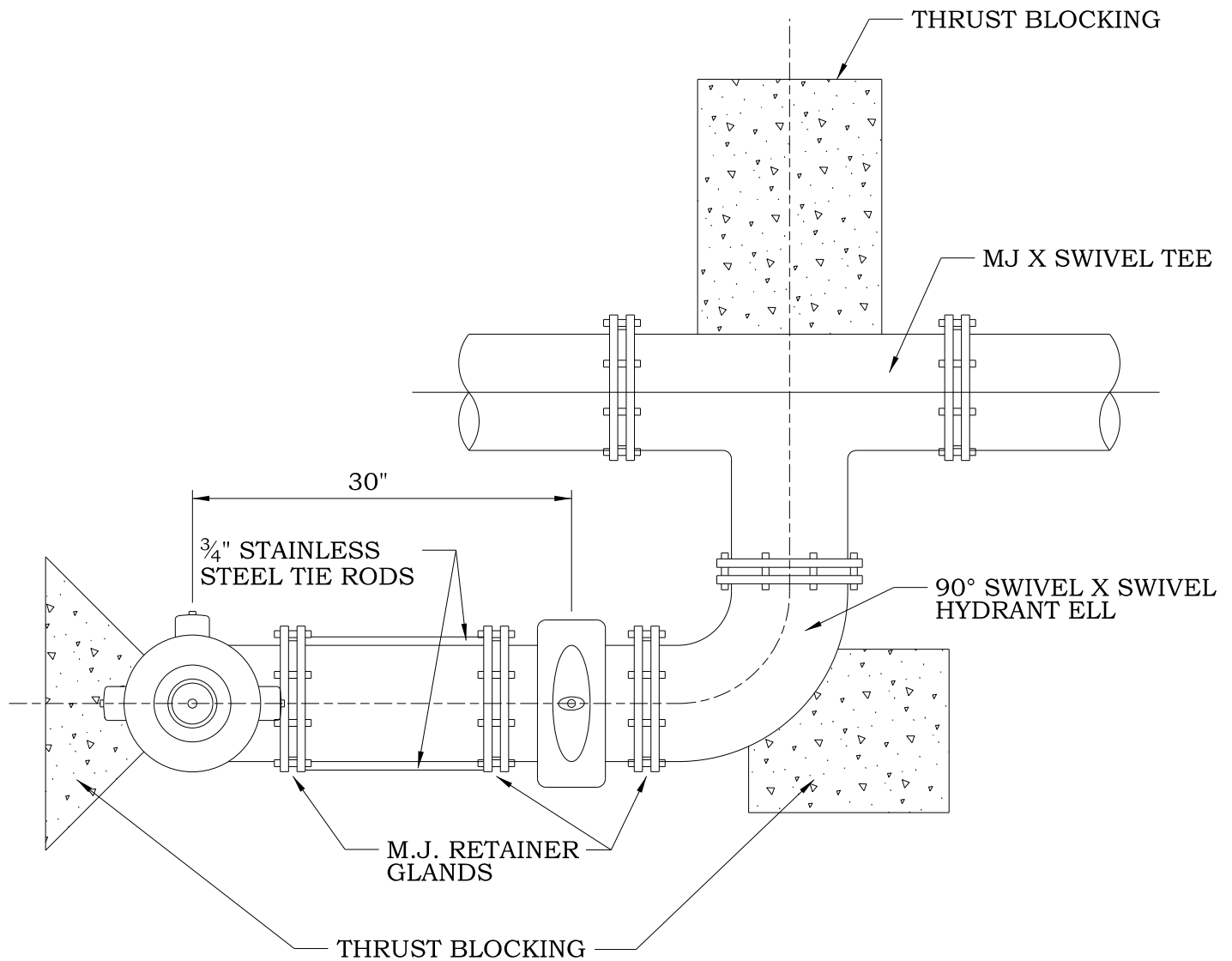


VILLAGE OF HUNTLEY

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FIRE HYDRANT INSTALL

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NOTES:

1. THE CONTRACTOR WILL SUPPLY HYDRANTS WITH AUXILIARY VALVES AND MECHANICAL JOINT CONNECTIONS WITH PLAIN END DUCTILE IRON PIPE BETWEEN HYDRANT AND VALVE.
2. ALL MECHANICAL JOINTS OR WATER MAIN FITTINGS SHALL USE STAINLESS STEEL T-BOLTS AND NUTS AND MEGALUG RESTRAINING DEVICES. NO SUBSTITUTIONS WILL BE ALLOWED.
3. WHEN CONDITIONS REQUIRE, SUCH AS LIMITED ACCESS OR UTILITY CONFLICTS THE HYDRANT SHALL BE INSTALLED AND/OR RELOCATED PER THE FIRE HYDRANT PARALLEL TO MAIN DETAIL SHOWN. THE COST OF ANY ADDITIONAL MATERIALS OR LABOR SHALL BE CONSIDERED INCIDENTAL TO THE COST OF HYDRANT INSTALLATION AND/OR RELOCATION.



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FIRE HYDRANT PARALLEL TO MAIN

| | | |
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| DATE: 1/1/2016 | REVISED: 1/1/2016 | |

PRECAST CONC. ADJUSTING RING (8" MAXIMUM) (2-MAXIMUM)

24"

VILLAGE OF HUNTLEY "WATER" FRAME AND LID

EXTERNAL CHIMNEY SEAL

BURY DEPTH 5' MIN. COVER
6' MAX. COVER

15" *

THE TOP TWO MANHOLE STEPS SHALL BE REMOVED PRIOR TO FINAL INSPECTION

BUTYL RUBBER MASTIC STRIP (TYP.)

STEEL REINFORCED POLYPROPYLENE MANHOLE STEPS 14" WIDE, 16" ON CENTER 6" MIN. PROJECTION

PRECAST REINFORCED CONCRETE MANHOLE SECTIONS

FLEXIBLE PIPE CONNECTOR WITH 2 STAINLESS STEEL BANDS

WATER MAIN

"T"

8" MIN.

6"

CONCRETE SUPPORT

GRANULAR BEDDING 4" MIN. CA-7

NOTES:

1. CONCENTRIC CONE REQUIRED.
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES THRU 8".
3. USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" AND GREATER, AND FOR ALL PRESSURE CONNECTIONS.
4. THICKNESS "T"=4" MIN. FOR 4' DIAMETER AND 5" MIN. FOR 5' DIAMETER VAULTS.
5. ALL PRECAST VAULT SECTIONS SHALL BE BITUMINOUS COATED.
6. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE STRUCTURE'S RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES OUTSIDE LIMITS OF PAVED SURFACES.
7. UNLESS OTHERWISE SPECIFIED HEREIN CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STD. SPEC. FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

* FOR PRECAST CONCRETE SECTIONS, THIS DIMENSION MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6"

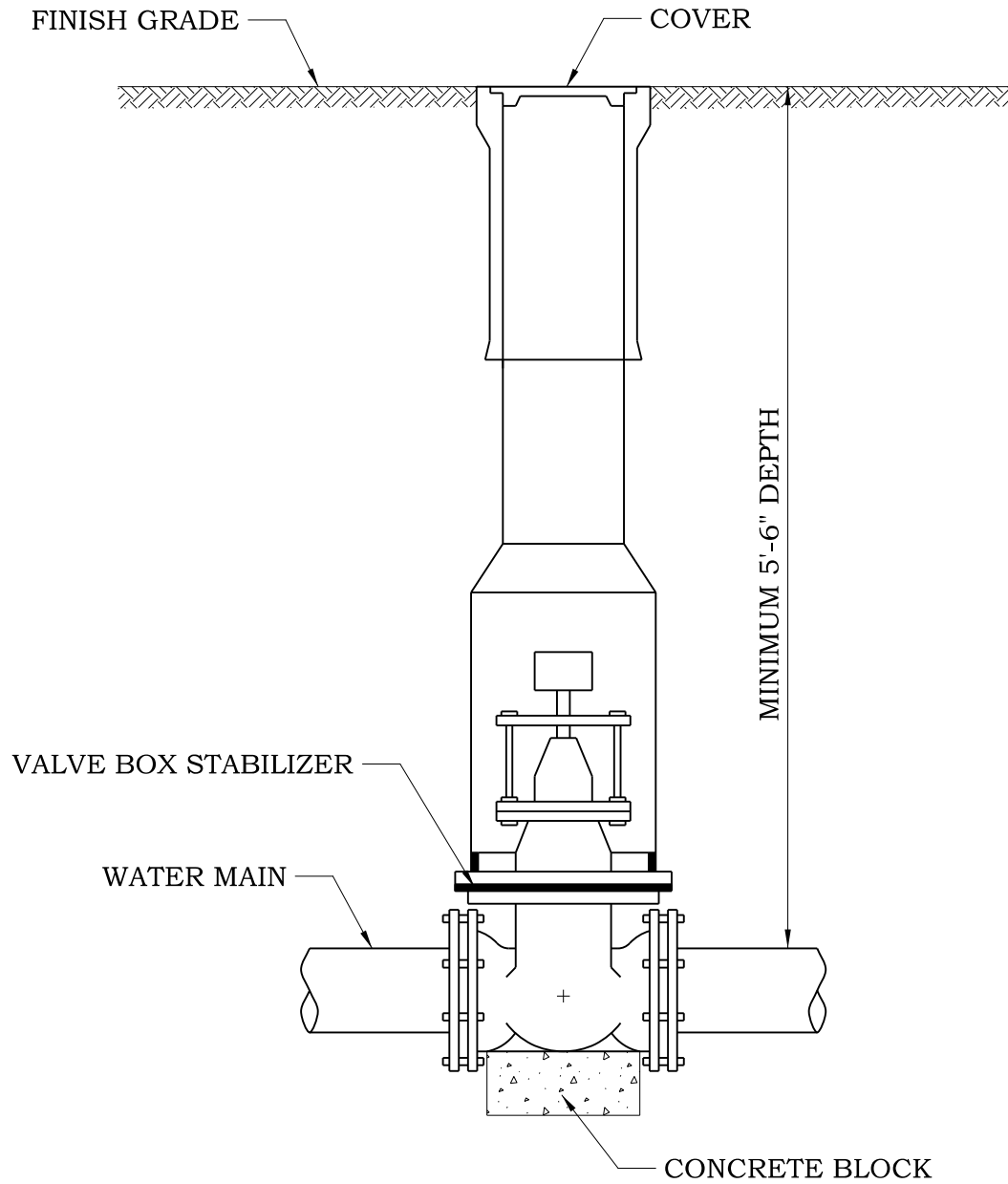


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VALVE VAULT

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER WAT-3 |
| DATE: 1/1/2016 | REVISED: 3/9/2021 | |



NOTES:

1. ALL VALVES 2½ " THRU 8" SHALL BE PLACED IN A VALVE BOX, UNLESS APPROVED BY THE VILLAGE ENGINEER.
2. ALL VALVES 10" OR LARGER SHALL BE PLACED IN A VALVE VAULT.
3. ALL VALVES REGARDLESS OF SIZE LOCATED WITHIN PAVEMENT LIMITS SHALL BE PLACED IN A VALVE VAULT.

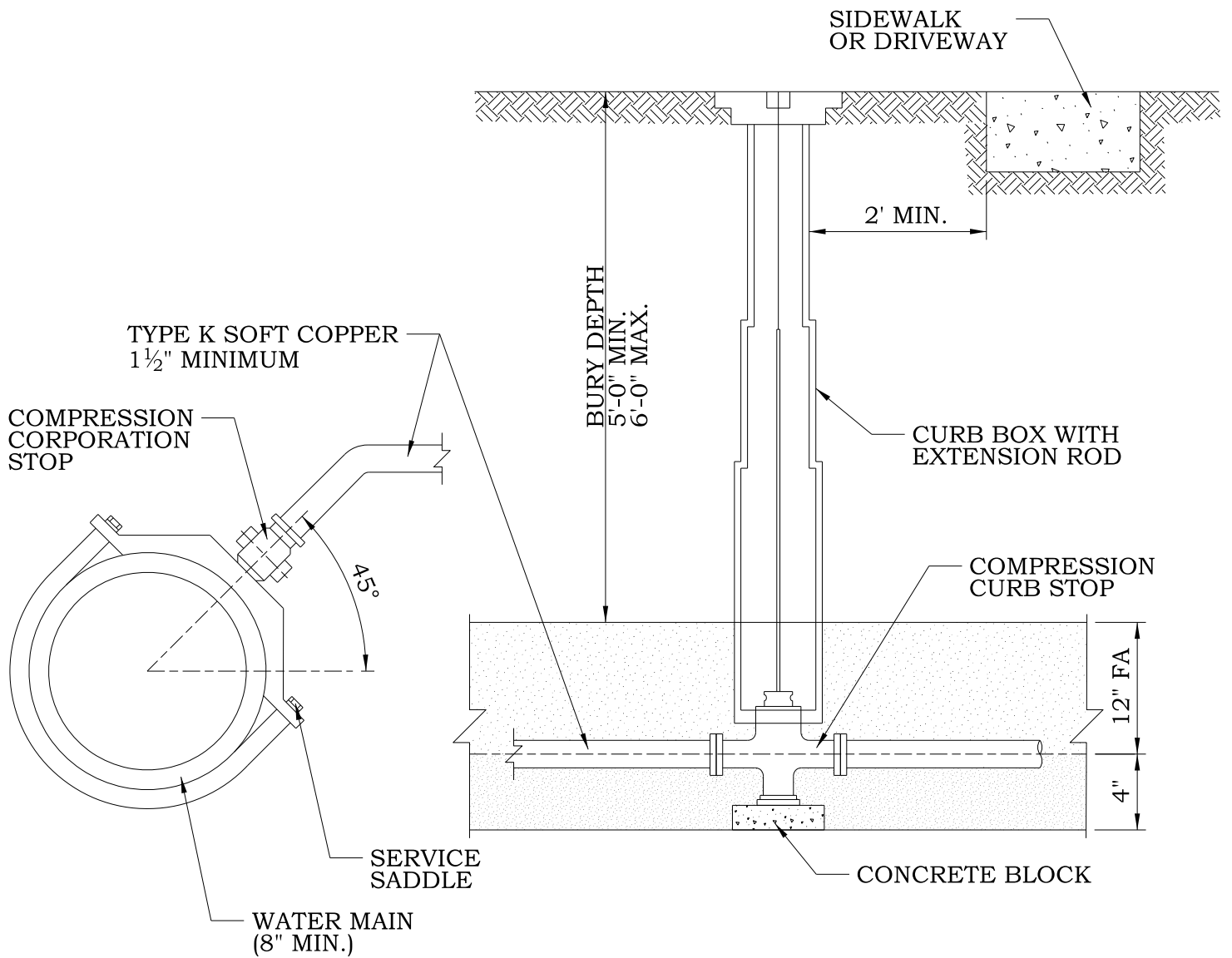


VILLAGE OF HUNTLEY

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VALVE BOX INSTALLATION

| | | |
|-------------------|----------------------------|------------------------------------|
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| DATE: 1/1/2016 | REVISED: 3/9/2021 | |

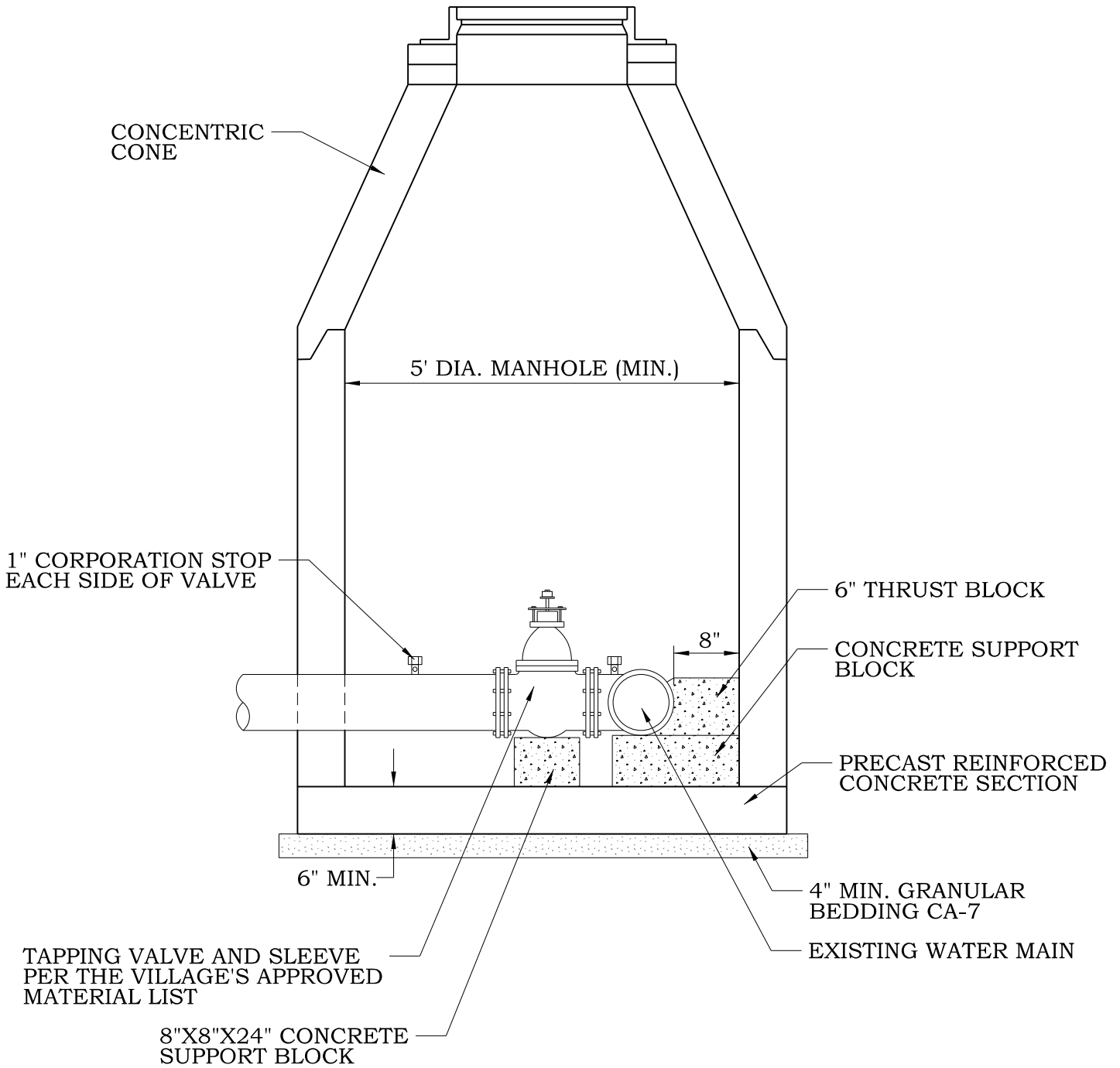


NOTES:

1. NO CORPORATION STOPS, SERVICE LINES, OR CURB BOXES MAY BE LOCATED UNDER PAVED AREAS INCLUDING DRIVES AND SIDEWALKS, OR WITHIN 2 FEET OF ANY PAVED SURFACE.
2. ALL WATER SERVICE HARDWARE SHALL BE MUELLER.
3. SERVICE LINES TO BE CONTINUOUS WITHOUT JOINTS FROM CORPORATION STOP TO CURB STOP.
4. MULTIPLE TAPS INTO MAIN SHALL BE NO CLOSER THAN 2' APART.
5. SERVICE LINES SHALL BE BEDDED AND BACKFILLED WITH FA-1, FA-2, FA-6 OR FA-21. TRENCH FROM MAIN TO BACK OF SIDEWALK TO BE COMPACTED TRENCH BACKFILL PER THE VILLAGE'S STANDARD TRENCH DETAILS.
6. ALL MATERIALS PER THE VILLAGE'S APPROVED MATERIAL LIST.
7. CONNECTION OF EXISTING WATER SERVICES LESS THAN 1 1/2" MAY BE RE-CONNECTED UPON THE AUTHORIZATION OF THE DIRECTOR OF PUBLIC WORKS UTILIZING THE DIRECT TAP METHOD TO 6 INCH MAINS AND LARGER ONLY.

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| WATER SERVICE INSTALLATION | | |
|----------------------------|---------------|----------------|
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| NTS | CBBEL/TPF | |
| DATE: | REVISED: | WAT-5 |
| 1/1/2016 | 1/1/2016 | |



NOTES:

1. VALVE VAULT SHALL BE CONSTRUCTED PER THE STANDARD DETAIL WAT-3.
2. EXTERNAL CHIMNEY SEALS PER THE VILLAGE'S APPROVED MATERIAL LIST SHALL BE INSTALLED ON ALL STRUCTURES WHEN LOCATED WITHIN LIMITS OF PAVED SURFACES. THE STRUCTURE'S RIM SHALL BE 1/2" BELOW PAVEMENT GRADE. EXTERNAL CHIMNEY SEALS MAY BE ELIMINATED FOR STRUCTURES OUTSIDE THE LIMITS OF PAVED SURFACES.

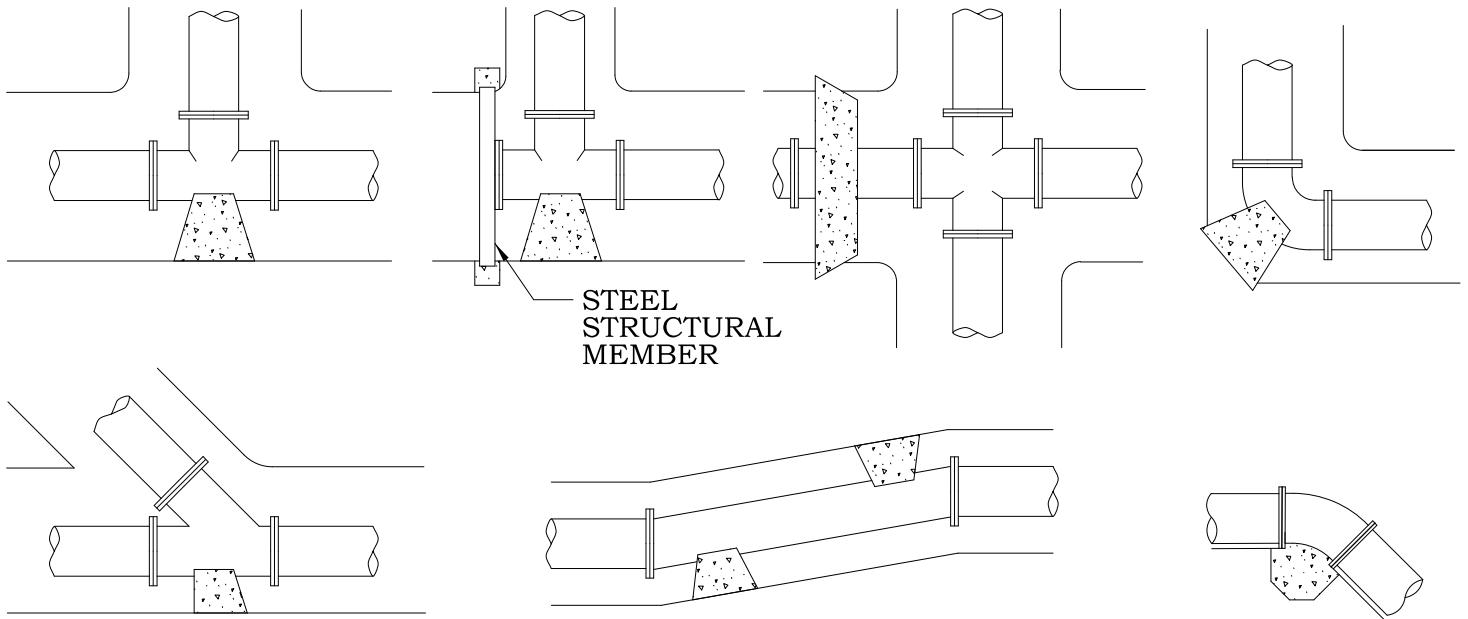


VILLAGE OF HUNTLEY

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WATER MAIN PRESSURE CONNECTION

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER WAT-6 |
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BEARING AREA (SQ. FT.)

| PIPE SIZE | TEE/PLUG | 90 DEG. | 45 DEG. | 22½° | 11¼° |
|-----------|----------|---------|---------|------|------|
| 6 | 4 | 2 | 1 | 1 | 1 |
| 8 | 6 | 4 | 3 | 1 | 1 |
| 10 | 7 | 5 | 3 | 2 | 1 |
| 12 | 8 | 6 | 4 | 3 | 2 |
| 14 | 12 | 9 | 6 | 4 | 3 |
| 16 | 15 | 12 | 7 | 5 | 3 |
| 18 | 18 | 15 | 9 | 5 | 4 |
| 24 | 40 | 30 | 15 | 10 | 5 |

NOTES:

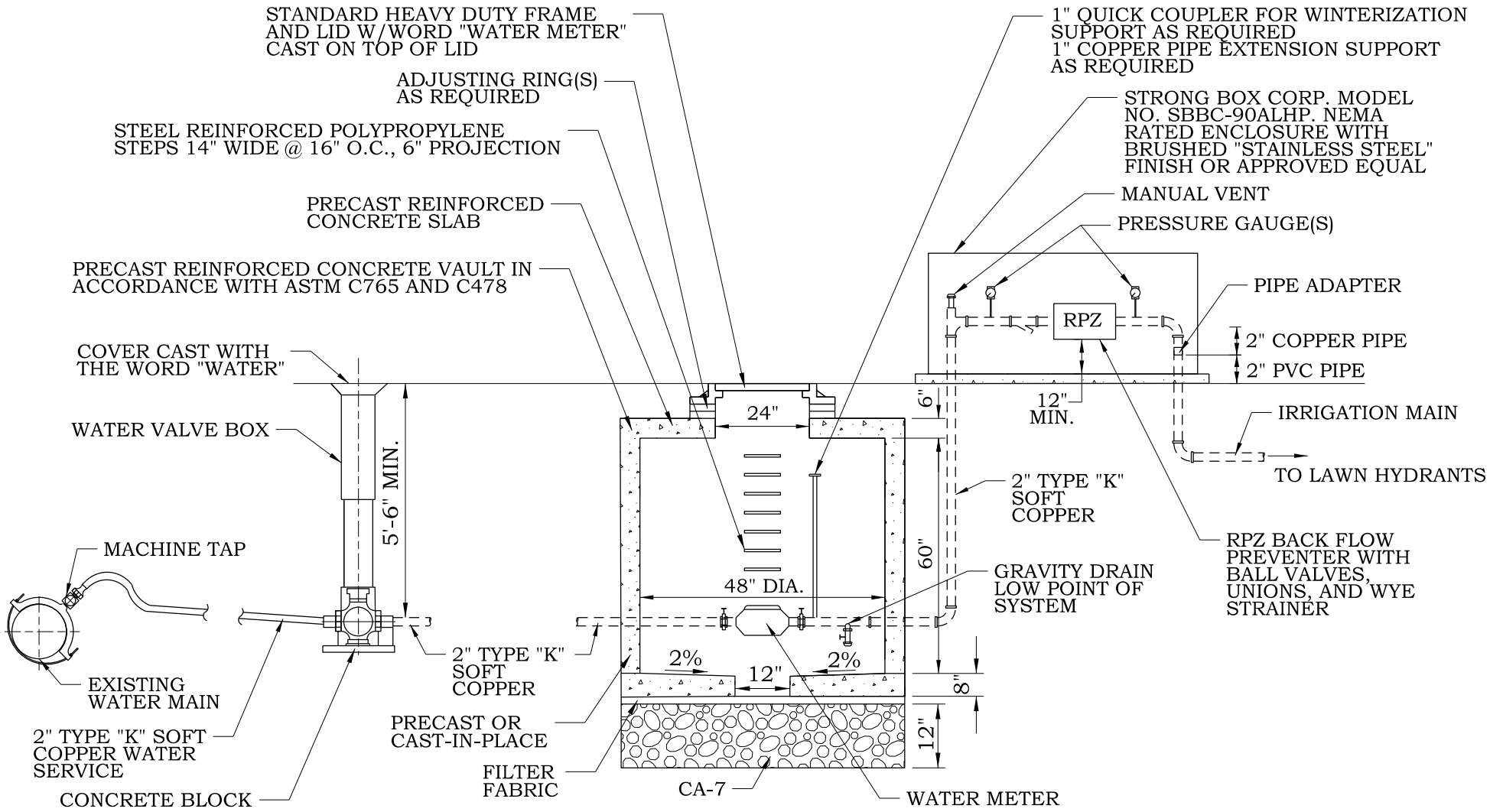
1. ALL BLOCKING SHALL BE POURED CONCRETE AGAINST UNDISTURBED EARTH.
2. ALL BENDS OR ELBOWS GREATER THAN 11¼° SHALL HAVE THRUST BLOCKING.
3. IN ADDITION TO THRUST BLOCKING, ALL MECHANICAL JOINTS, BENDS OVER 11¼° AND FIRE HYDRANTS SHALL HAVE "MEGA LUG" JOINT RESTRAINTS AND STAINLESS STEEL BOLTS AND NUTS.
4. ALL PUSH ON JOINTS A MINIMUM DISTANCE OF TWO JOINTS ON EITHER SIDE OF ALL WATERMAIN FITTINGS SHALL BE RESTRAINED BY THE USE OF JOINT RESTRAINTS MEETING THE VILLAGE'S APPROVED MATERIAL LIST.



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WATER MAIN THRUST BLOCKING

| | | |
|-------------------|----------------------------|------------------------------------|
| SCALE: NTS | DRAWN/CHECKED CBBEL/TPF | DRAWING NUMBER WAT-7 |
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NOTES:

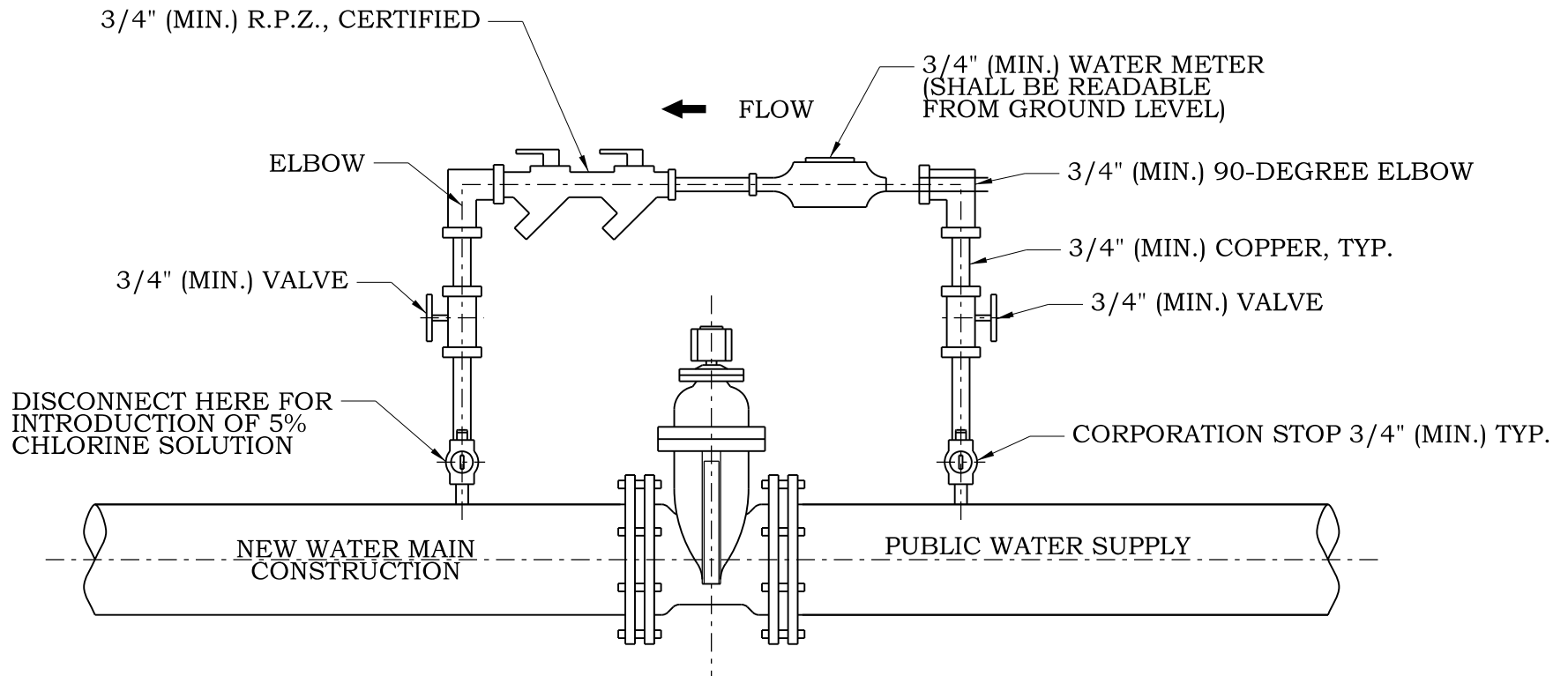
1. EXACT LOCATION OF SERVICE STUBS TO BE DETERMINED BY CONTRACTOR.
2. THE WATER SERVICE PIPING SHALL BE AUGERED UNDER ROADS WHERE INDICATED ON THE DRAWINGS.



VILLAGE OF HUNTLEY
 10987 MAIN STREET
 HUNTLEY, IL 60142
 (847) 669-3450

IRRIGATION SERVICE

| | | |
|----------|---------------|----------------|
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| DATE: | REVISED: | |
| NTS | CBBEL/TPF | WAT-8 |
| 1/1/2016 | 1/1/2016 | |



NOTE:
1. VALVE JUMPER MUST BE ABOVE MANHOLE LID.



VILLAGE OF HUNTLEY

10987 MAIN STREET
HUNTLEY, IL 60142
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WATER VALVE JUMPER

| | | |
|----------|---------------|----------------|
| SCALE: | DRAWN/CHECKED | DRAWING NUMBER |
| DATE: | REVISED: | |
| NTS | CBBEL/TPF | WAT-9 |
| 1/1/2016 | 1/1/2016 | |