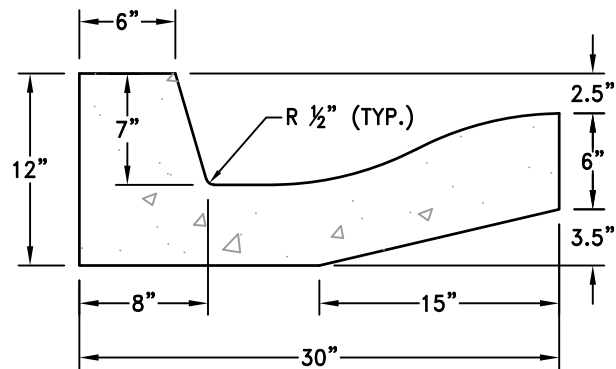


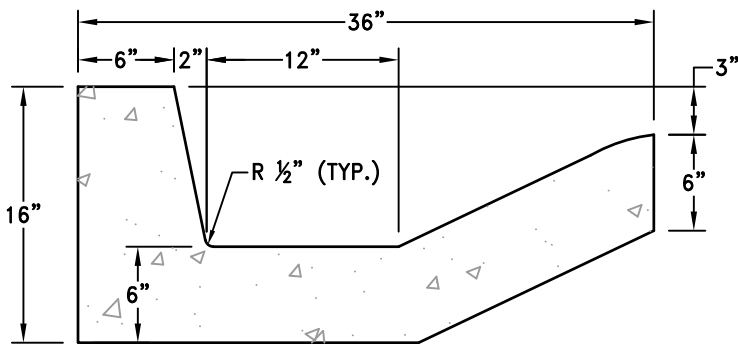
30" CURB & GUTTER – TYPE A

0.57 YD.³ /10 LINEAR FT.
N.T.S.



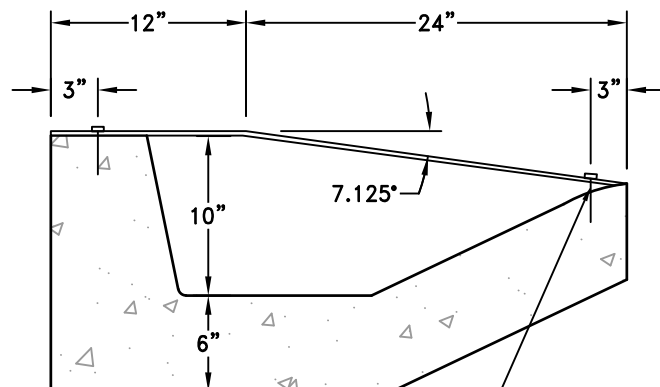
30" IRRIGATION CURB & GUTTER – TYPE B

0.57 YD.³ /10 LINEAR FT.
N.T.S.



36" CURB & GUTTER – TYPE C

0.81 YD.³ /10 LINEAR FT.
N.T.S.



1/2"x4" ANCHOR BOLT (GALVANIZED)
w/ 5/8" HOLE (SPACED 2' O/C & ON ALL CORNERS)

COVERED DRIVE or SIDEWALK ACCESS RAMP*

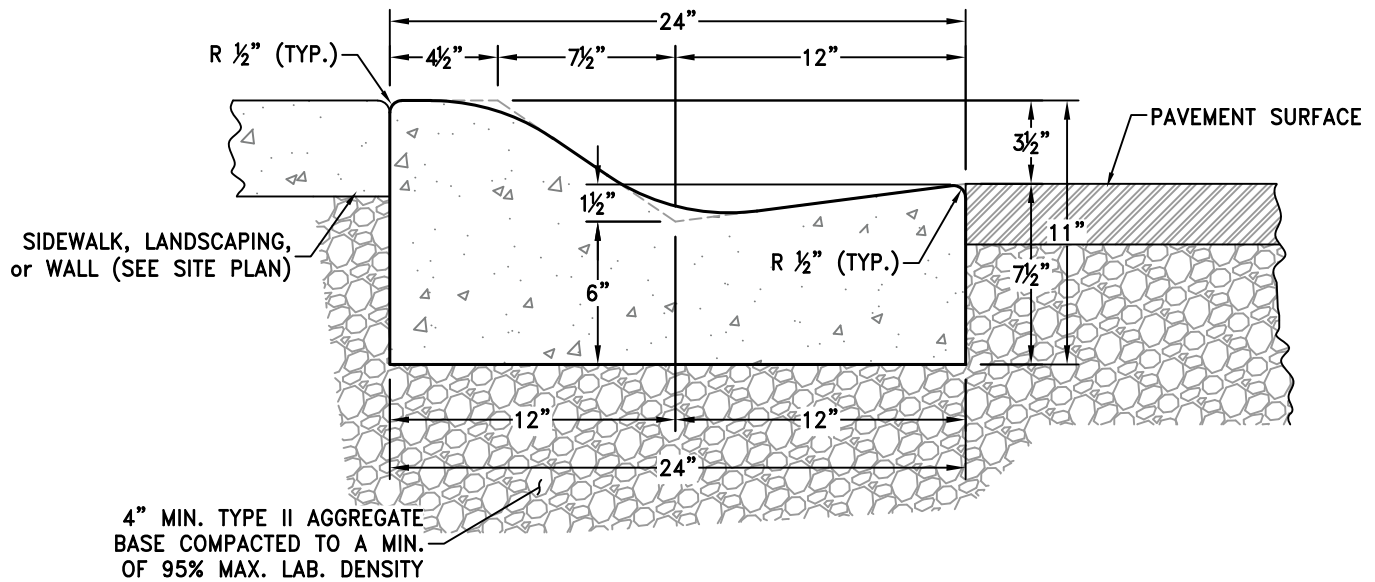
USING 1/2" LARGE PATTERN INLAND 4-WAY PLATE (GALVANIZED PAINTED or HOT DIPPED) LENGTHS TO BE SAME AS DRIVEWAY or SIDEWALK WIDTHS

* USE ONLY WHEN APPROVED BY THE CITY ENGINEER.

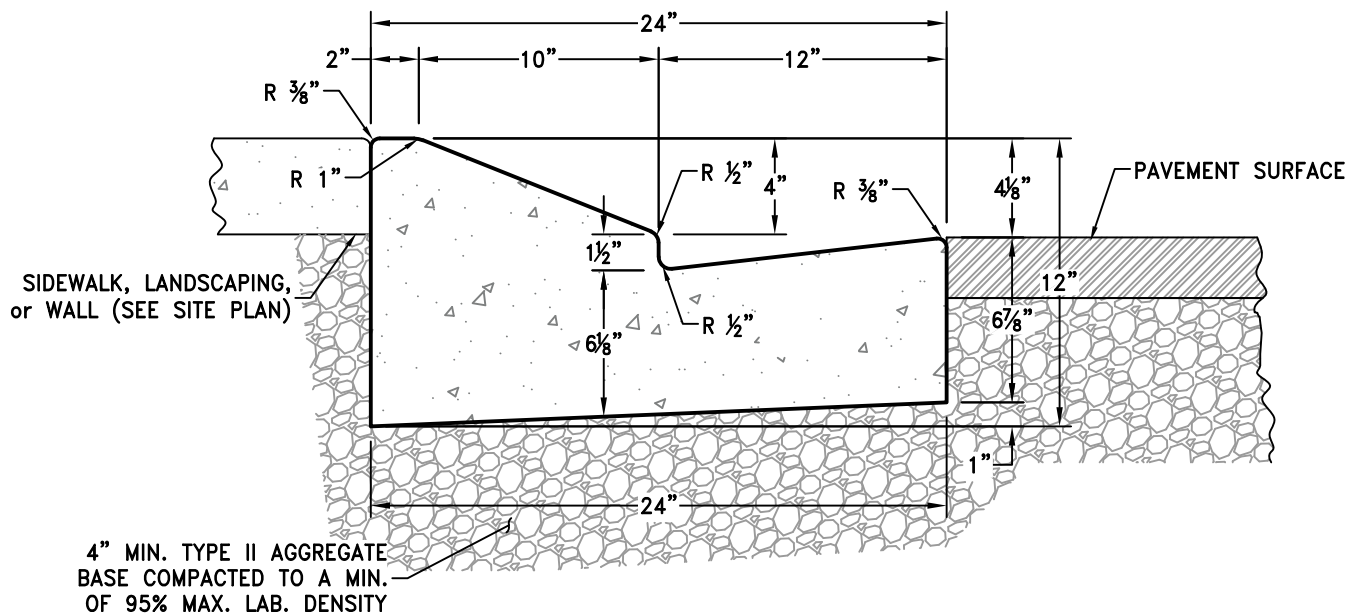
NOTES:

ALL CURB AND GUTTER TYPES SHALL HAVE:

1. CONTRACTION JOINTS EVERY 10'0" O.C. 1/2" DEEP.
2. EXPANSION JOINTS AT THE P.C. AND P.T. OF A STREET INTERSECTION CURB RADIUS RETURN.



24" ROLL CURB & GUTTER – DETAIL A
N.T.S.

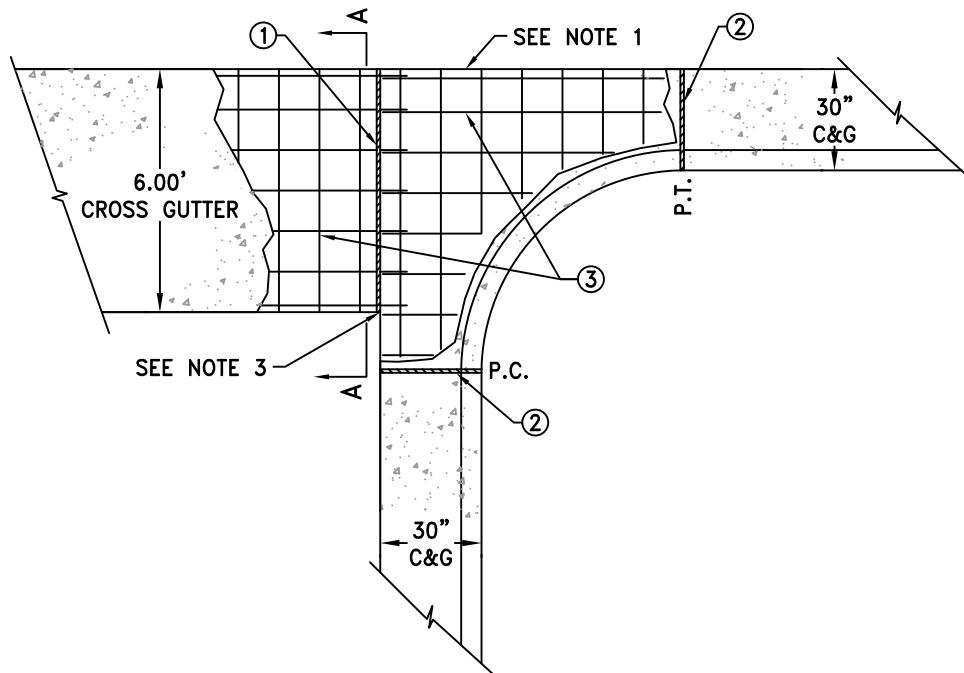


24" ROLL CURB & GUTTER – DETAIL B
N.T.S.

NOTES:

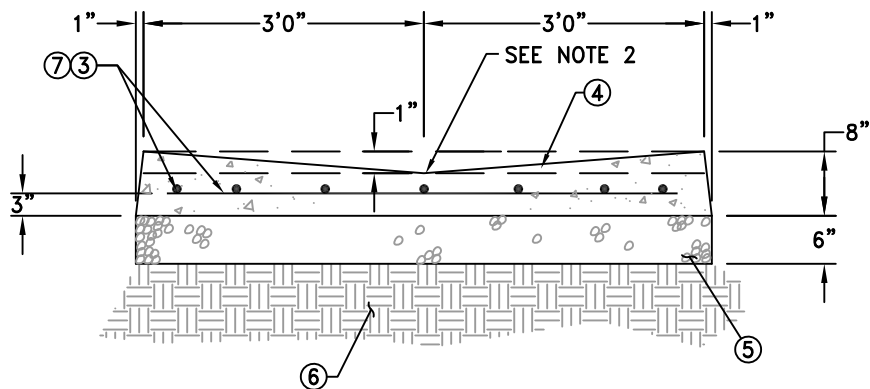
ALL CURB AND GUTTER TYPES SHALL HAVE:

1. CONTRACTION JOINTS EVERY 10'0" O.C. 1/2" DEEP.
2. EXPANSION JOINTS AT THE P.C. AND P.T. OF A STREET INTERSECTION CURB RADIUS RETURN.



PLAN VIEW

N.T.S.



SECTION B-B

N.T.S.

NOTES:

1. TRANSITION LIP OF CURB THROUGH APRON TO ACHIEVE 1" CROSS GUTTER DEPTH.
2. CROSS GUTTER FLOW LINE GRADE TO BE CONSTANT FROM CURB AND GUTTER ELEVATIONS AT EACH END.
3. ONLY 90° CORNERS WILL BE ALLOWED WHERE ASPHALT CONNECTS TO CROSS GUTTER. CONCRETE APRONS MAY BE REQUIRED.

CONSTRUCTION NOTES:

- ① CONTRACTION JOINT SPACED AT 10'0" MAX. O.C. THRU CROSS GUTTER
- ② 1/2" EXPANSION JOINT.
- ③ #4 BARS @ 12" O.C. BOTH WAYS STANDARD.
- ④ CLASS A CONCRETE.
- ⑤ AGGREGATE BASE.
- ⑥ COMPACTED SUBGRADE.
- ⑦ REBAR MATS TO BE SUPPORTED ON DOBIE BLOCKS or REBAR CHAIRS. SPACE EVERY 4'0" O.C. BOTH WAYS.



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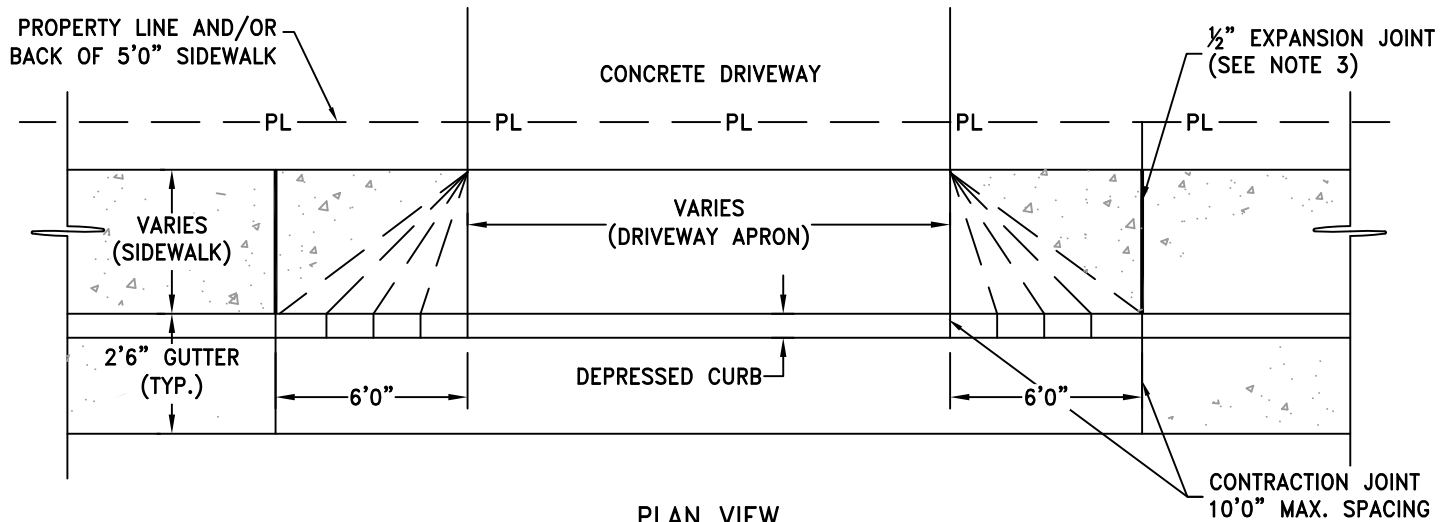
6'0" CROSS GUTTER

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

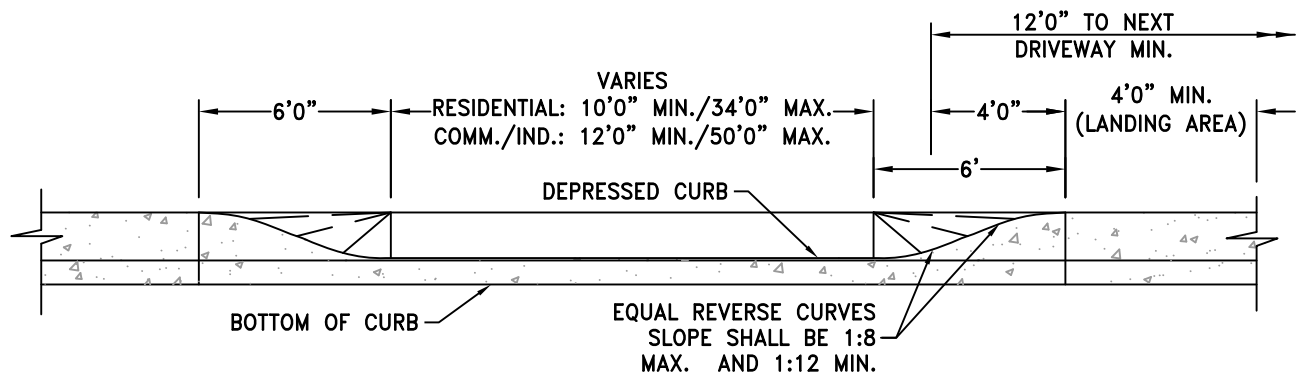
C2.0

SHEET:
1 of 1



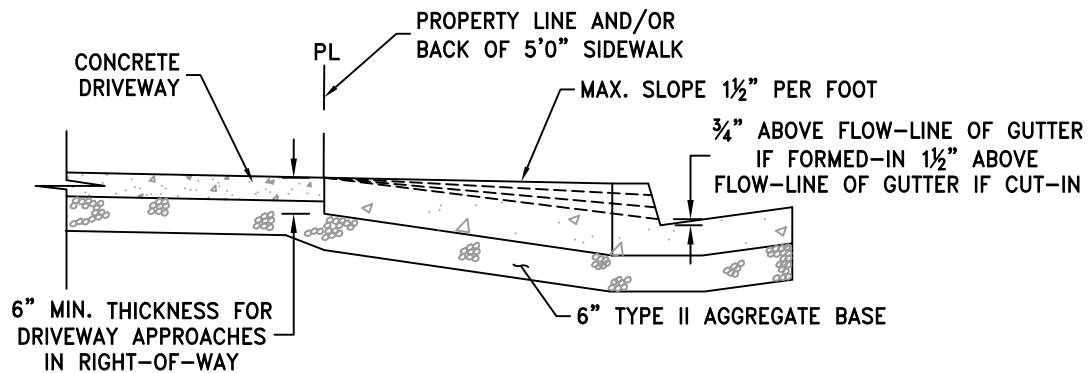
PLAN VIEW

N.T.S.



ELEVATION

N.T.S.

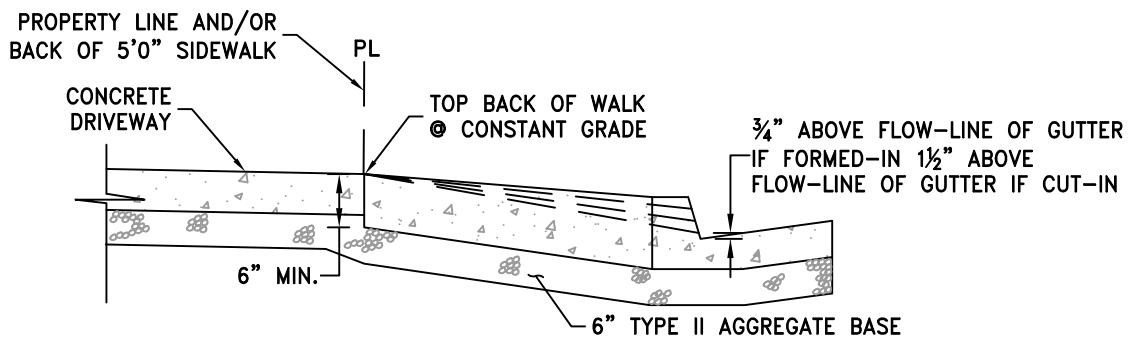
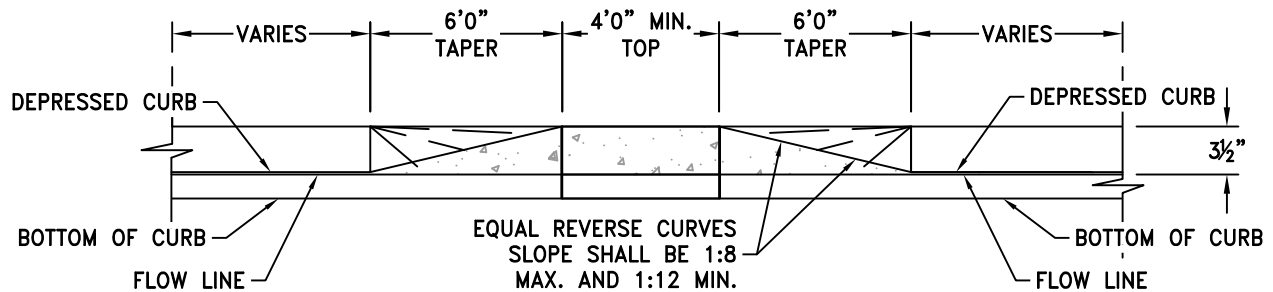
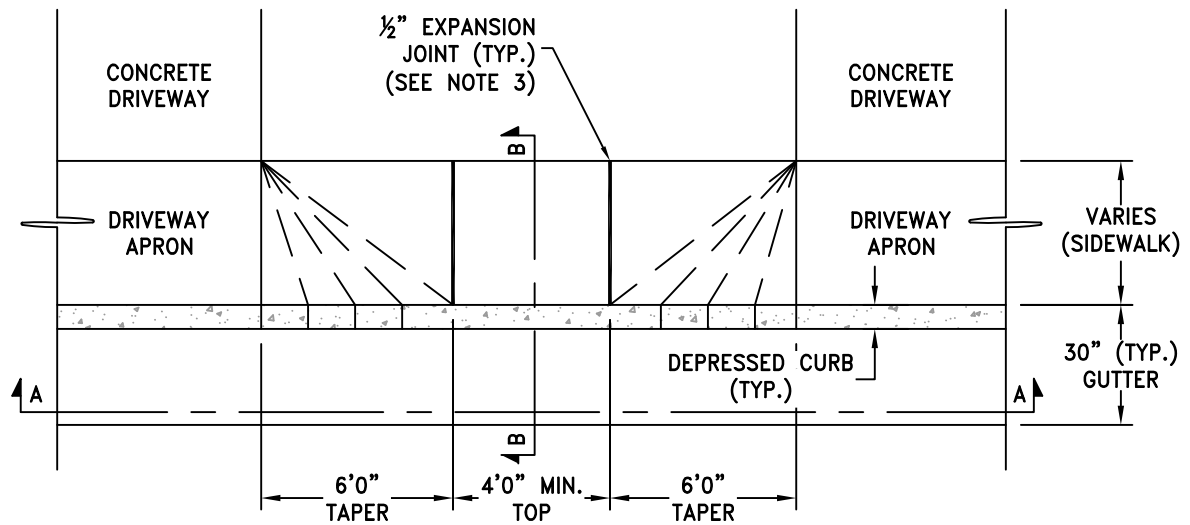


SECTION

N.T.S.

NOTES:

1. #4 BARS @ 16" O.C. BOTH WAYS REQUIRED ON COMMERCIAL & INDUSTRIAL DRIVEWAYS.
2. DRIVEWAY CUTS IN EXISTING CURBS SHALL BE SAW CUT TO DIMENSIONS SHOWN, BREAKING-OFF OF CURB BACKS WILL NOT BE PERMITTED.
3. 40' EXPANSION JOINT SPACING IN SIDEWALKS TO CONTINUE THROUGH DRIVEWAYS.
4. ALL CONCRETE TO BE CLASS B (4000 PSI).



NOTES:

1. #4 BARS @ 16" O.C. BOTH WAYS REQUIRED ON COMMERCIAL & INDUSTRIAL DRIVEWAYS.
2. DRIVEWAY CUTS IN EXISTING CURBS SHALL BE SAW CUT TO DIMENSIONS SHOWN, BREAKING-OFF OF CURB BACKS WILL NOT BE PERMITTED.
3. 40' EXPANSION JOINT SPACING IN SIDEWALKS TO CONTINUE THROUGH DRIVEWAYS.
4. ALL CONCRETE TO BE CLASS B (4000 PSI).



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TYPICAL DRIVEWAY BREAK

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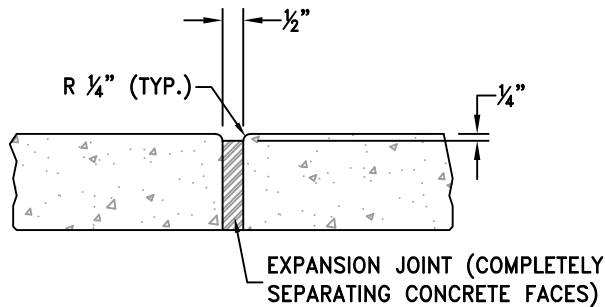
DETAIL No.:

C4.0

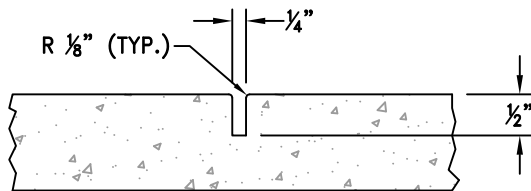
SHEET:
1 of 1

NOTES:

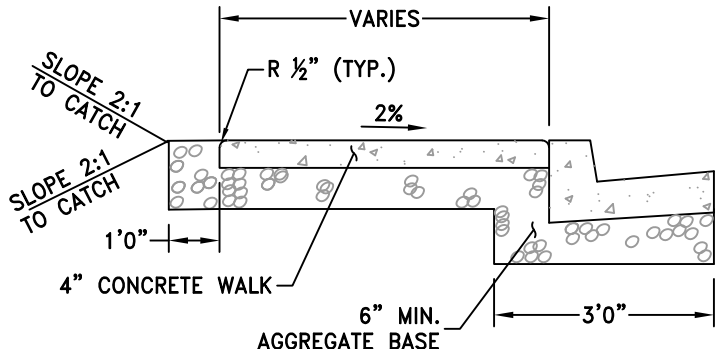
1. ON ALL CURB RETURNS EXPANSION JOINTS SHALL BE PLACED AT P.C. AND P.T. OF THE SIDEWALK.
2. ANY REPLACED SECTIONS OF SIDEWALK SHALL HAVE AN EXPANSION JOINT INSTALLED TO MAINTAIN THE 40'0" MAX. SPACING.



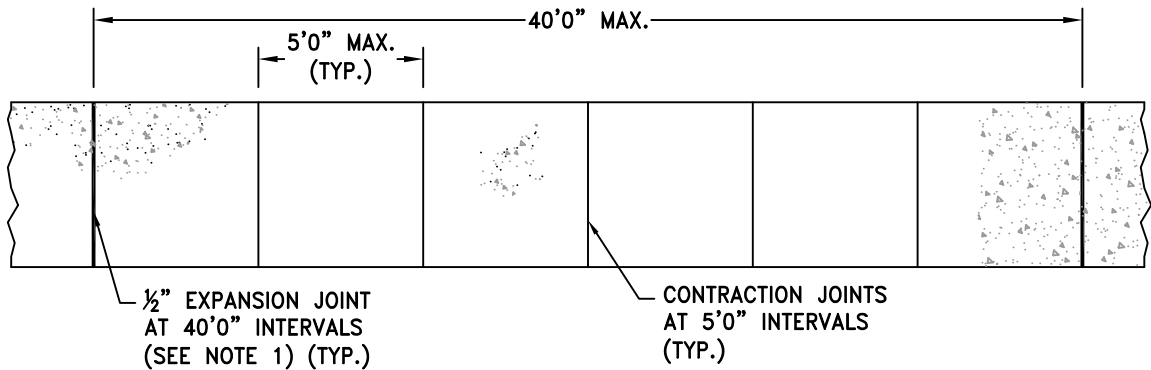
EXPANSION JOINT
N.T.S.



CONNECTION JOINT
N.T.S.



TYPICAL SECTION
N.T.S.



PLAN VIEW
N.T.S.



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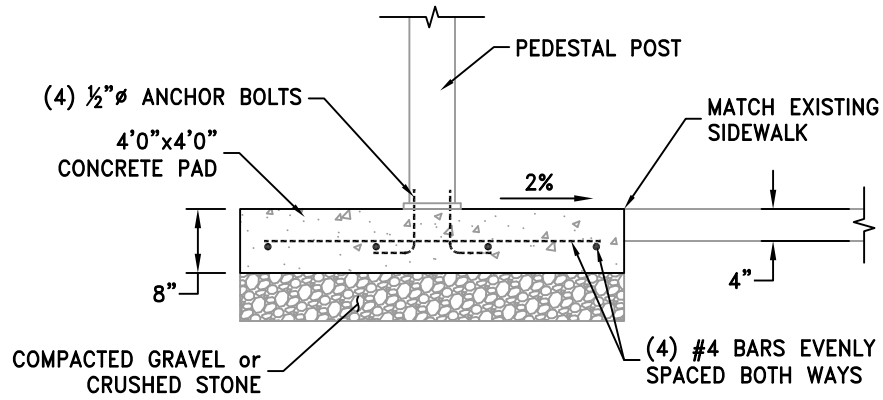
CONCRETE SIDEWALK

SCALE:
N.T.S.
DATE:
DEC. 2022

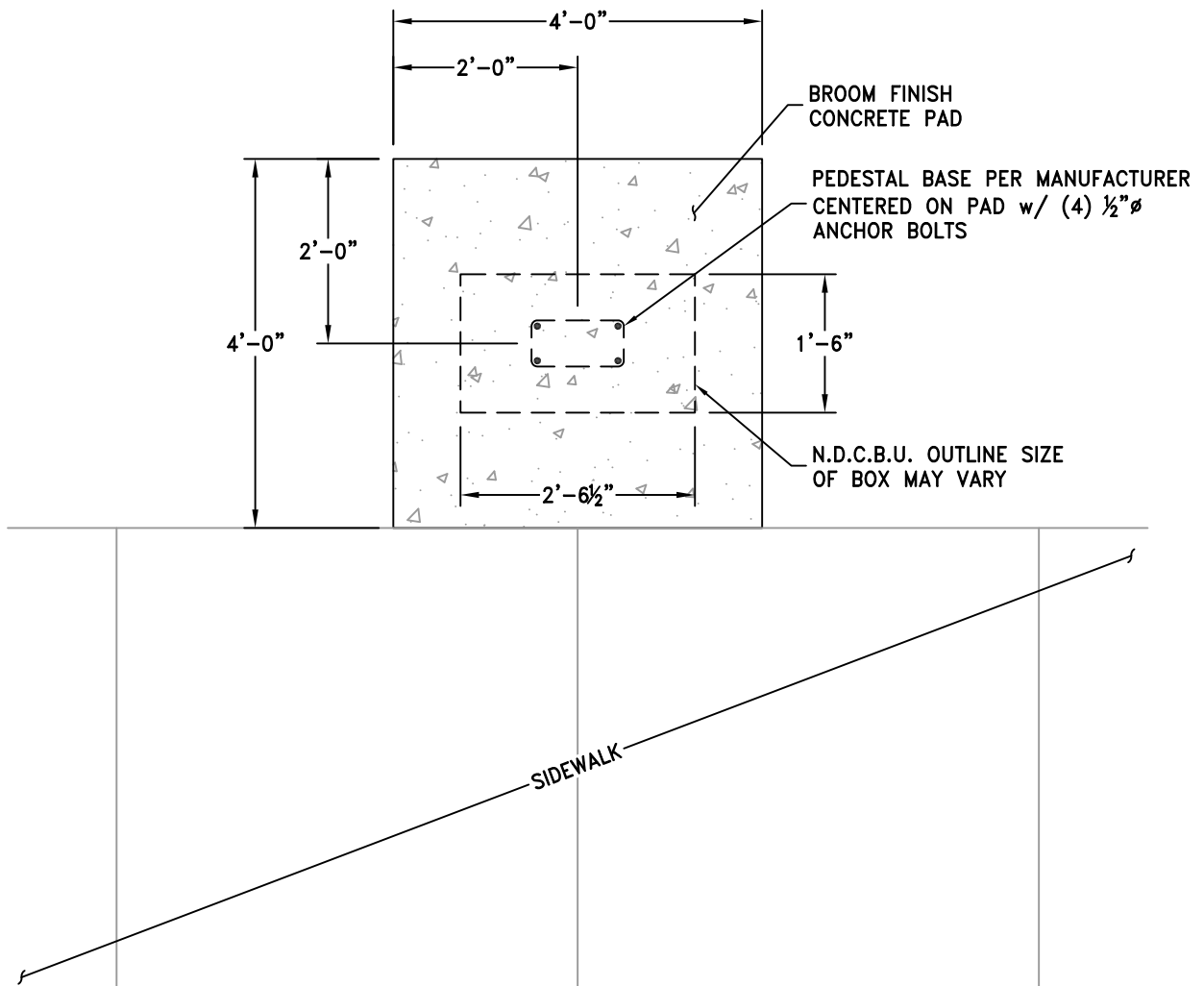
DETAIL No.:

C6.0

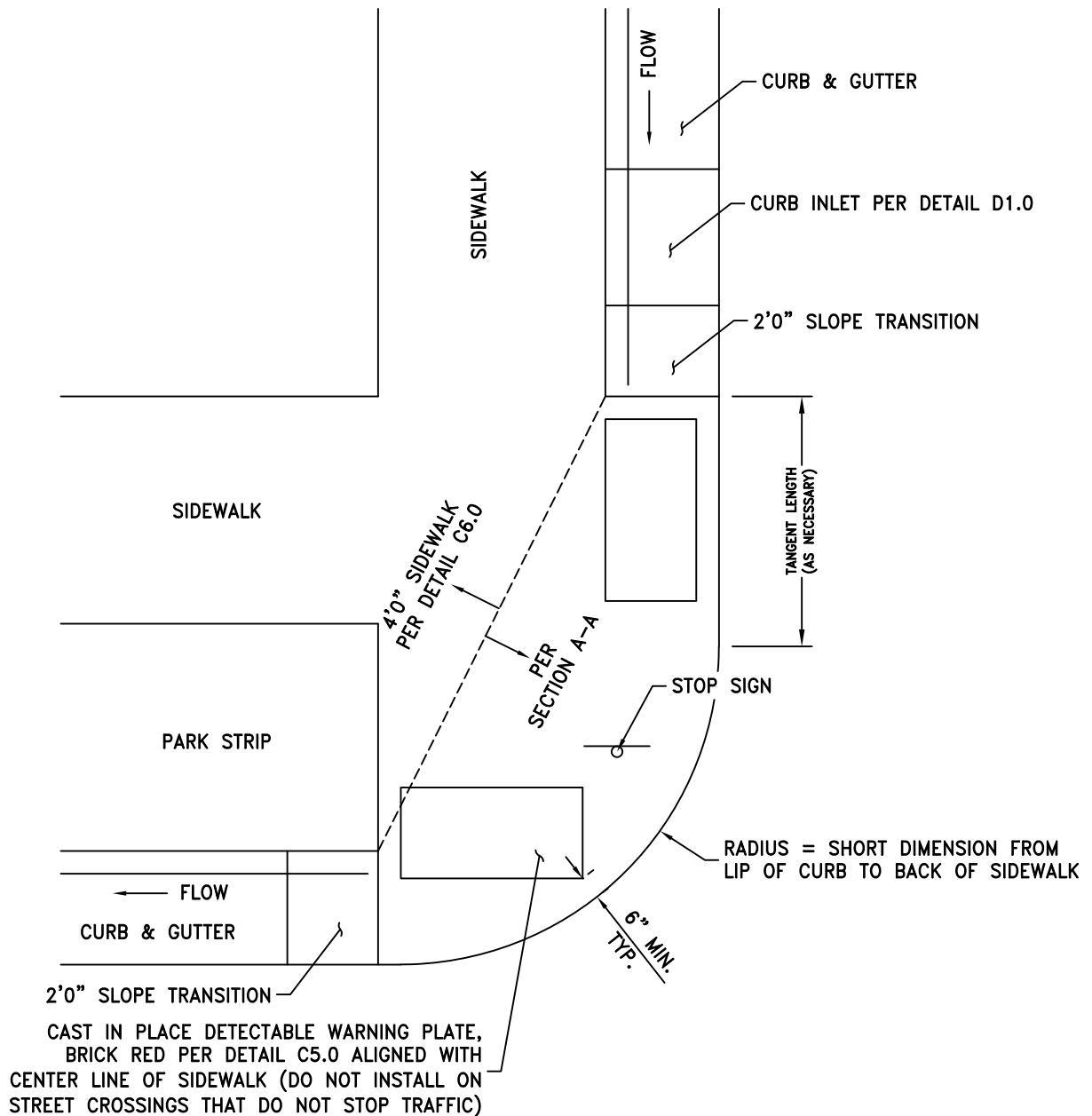
SHEET:
1 of 1



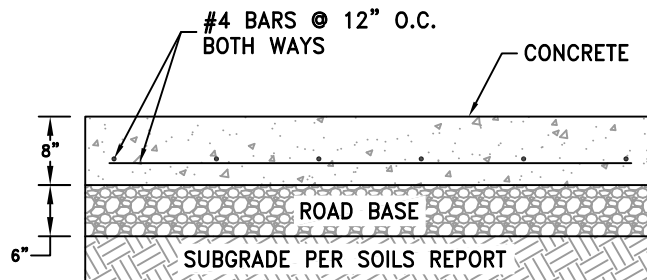
PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.



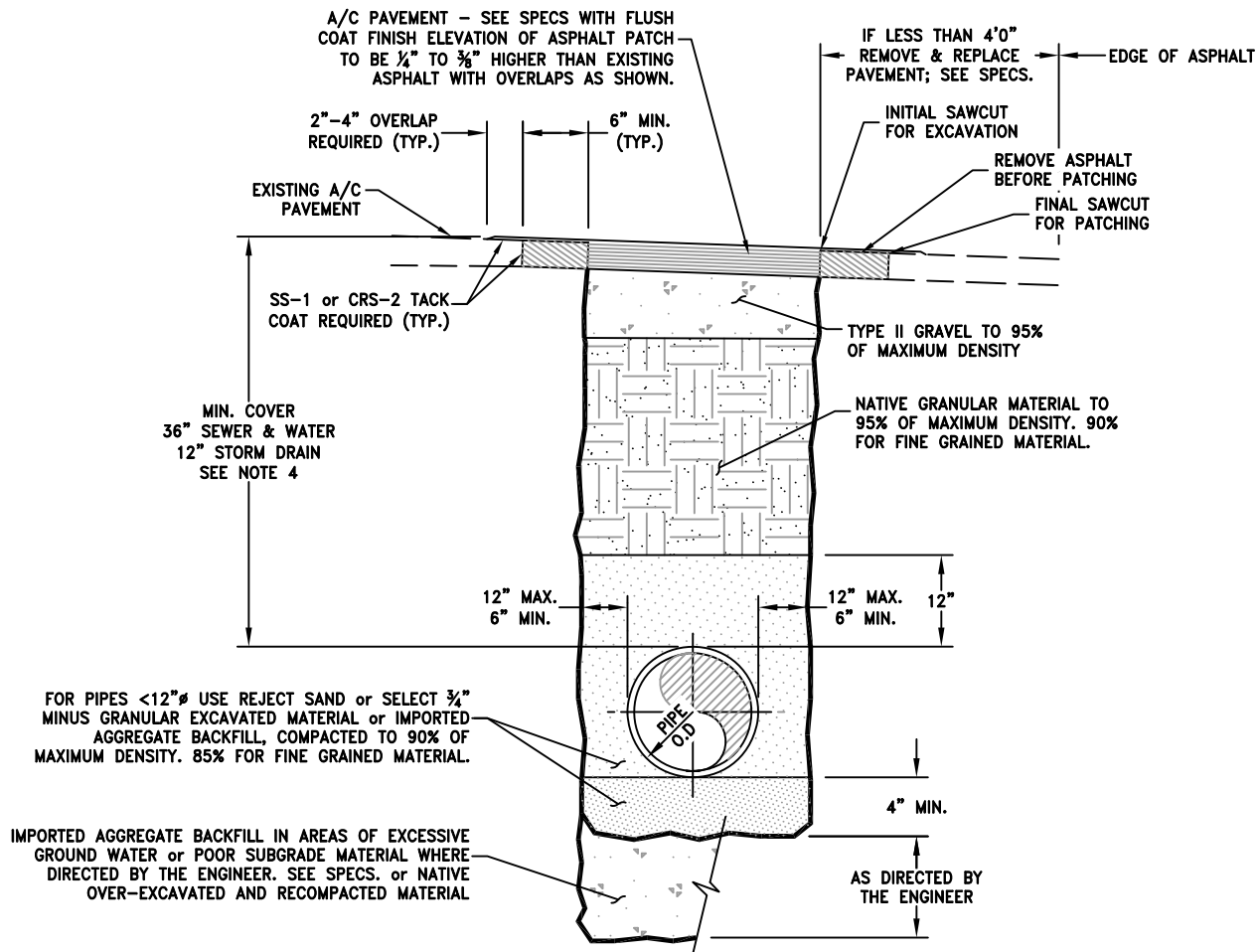
PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.





NOTES:

1. FALSE RADIUS ONLY ALLOWED WHERE APPROVED BY CITY ENGINEER.
2. CURB & GUTTER TO FLOW AWAY FROM FALSE RADIUS UNLESS STORM WATER FLOW IS ROUTED INTO A STORM DRAIN VIA A CURB INLET BOX AS SHOWN.
3. FALSE RADIUS TO BE ADAPTED TO CONDITION IN FIELD AS APPROVED BY CITY ENGINEER.



TYPICAL PAVED TRENCH DETAIL
N.T.S.

LEGEND

-  FINAL BACKFILL (MATERIAL AS SHOWN)
-  PIPE ZONE
-  BEDDING
-  FOUNDATION

NOTES:

1. THIS DETAIL APPLIES TO THE INSTALLATION OF ALL SERVICE LATERALS. TRENCH WIDTH MINIMUMS DO NOT APPLY TO LATERALS LESS THAN 4".
2. IF PROFILE DRAWING OF THE PIPE IS PROVIDED, THE COVER SHALL BE AS SHOWN ON PROFILE SHEET.
3. TRENCH SIDE SLOPES AND/OR SHORING SHALL COMPLY w/ OSHA STANDARDS.
4. FOR HDPE PIPE WITH LESS THAN 12" COVER USE FLOWABLE FILL TO BOTTOM OF ASPHALT FROM BOTTOM OF PIPE.
5. MINIMUM DEPTH OF SEWER MANHOLE IS 48" OF COVER OVER TOP OF THE PIPE UNLESS OTHERWISE APPROVED BY ENOCH CITY.



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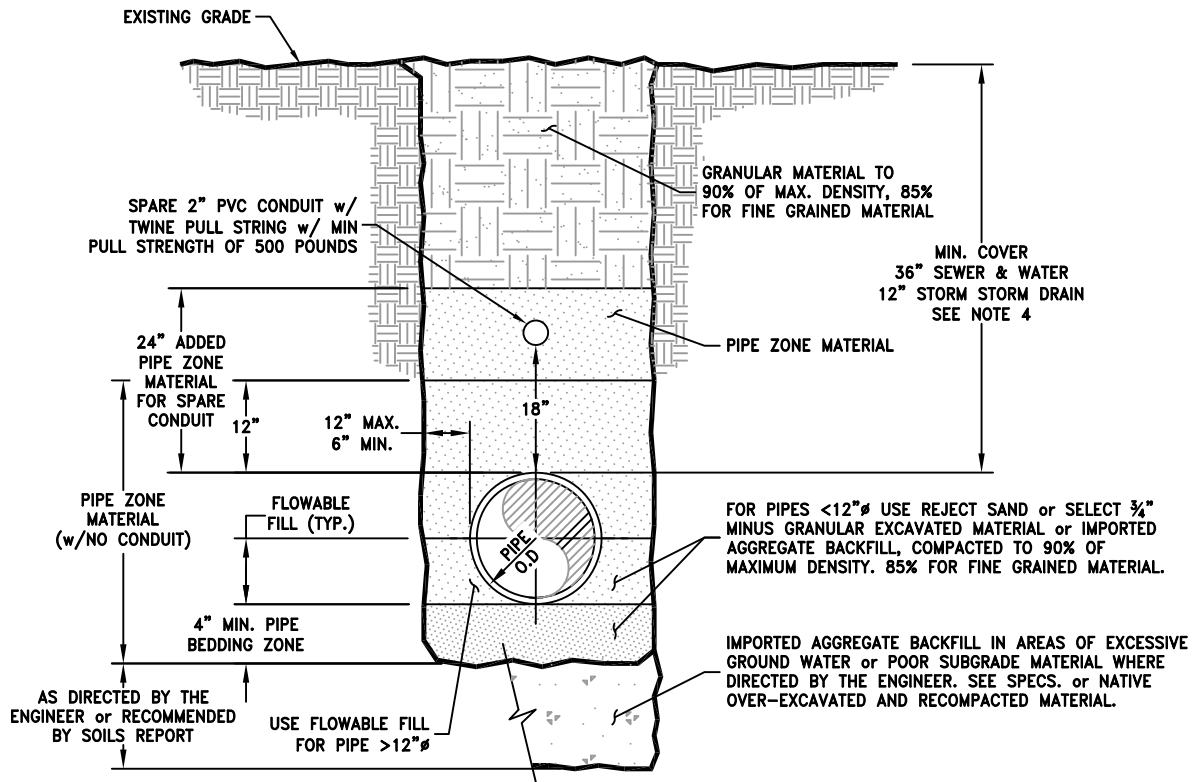
EARTH FILLED TRENCH SECTION

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:





R1.1A

SHEET:
1 of 2



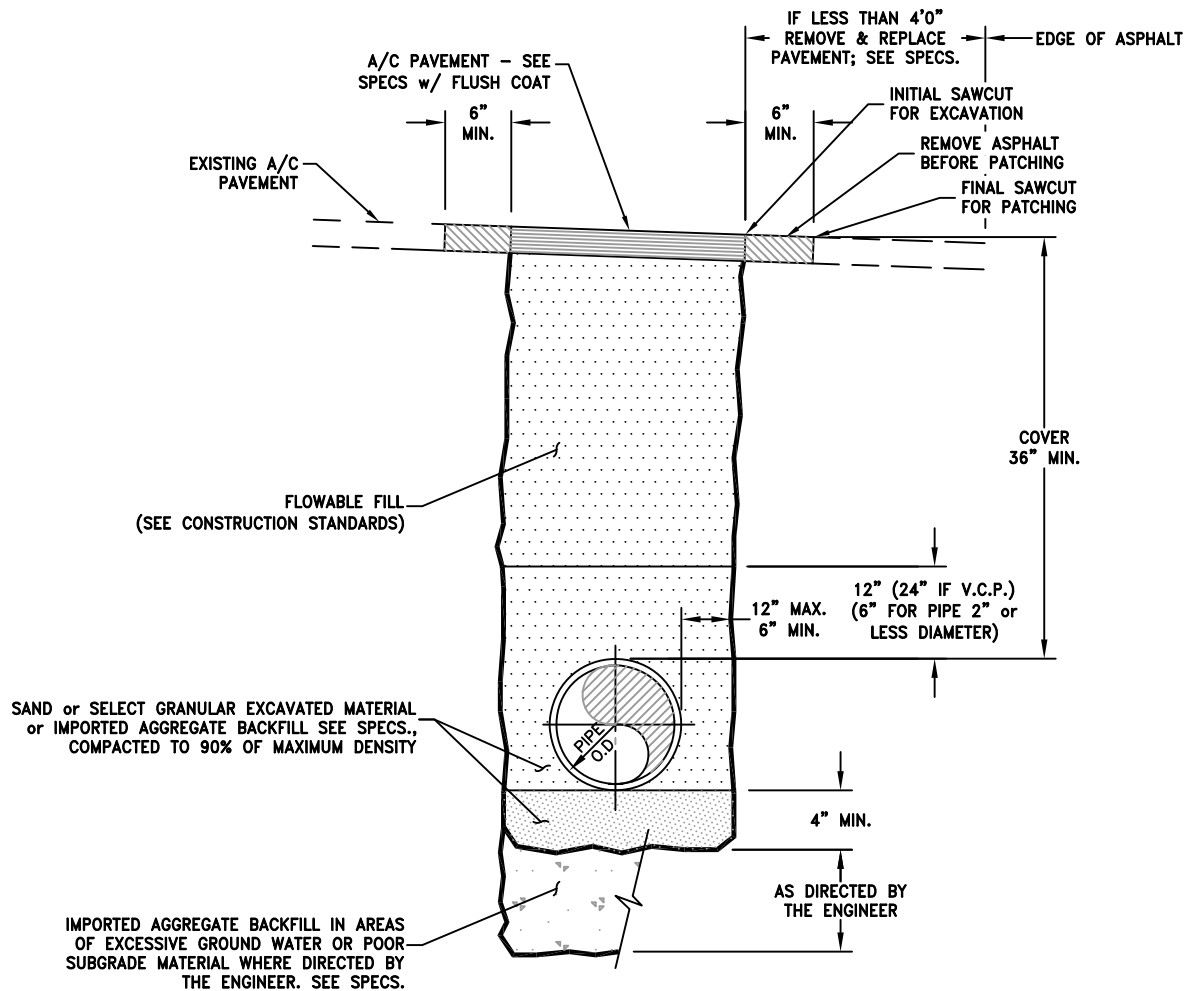
TYPICAL UNPAVED TRENCH DETAIL
N.T.S.

LEGEND

-  FINAL BACKFILL (MATERIAL AS SHOWN)
-  PIPE ZONE
-  BEDDING
-  FOUNDATION

NOTES:

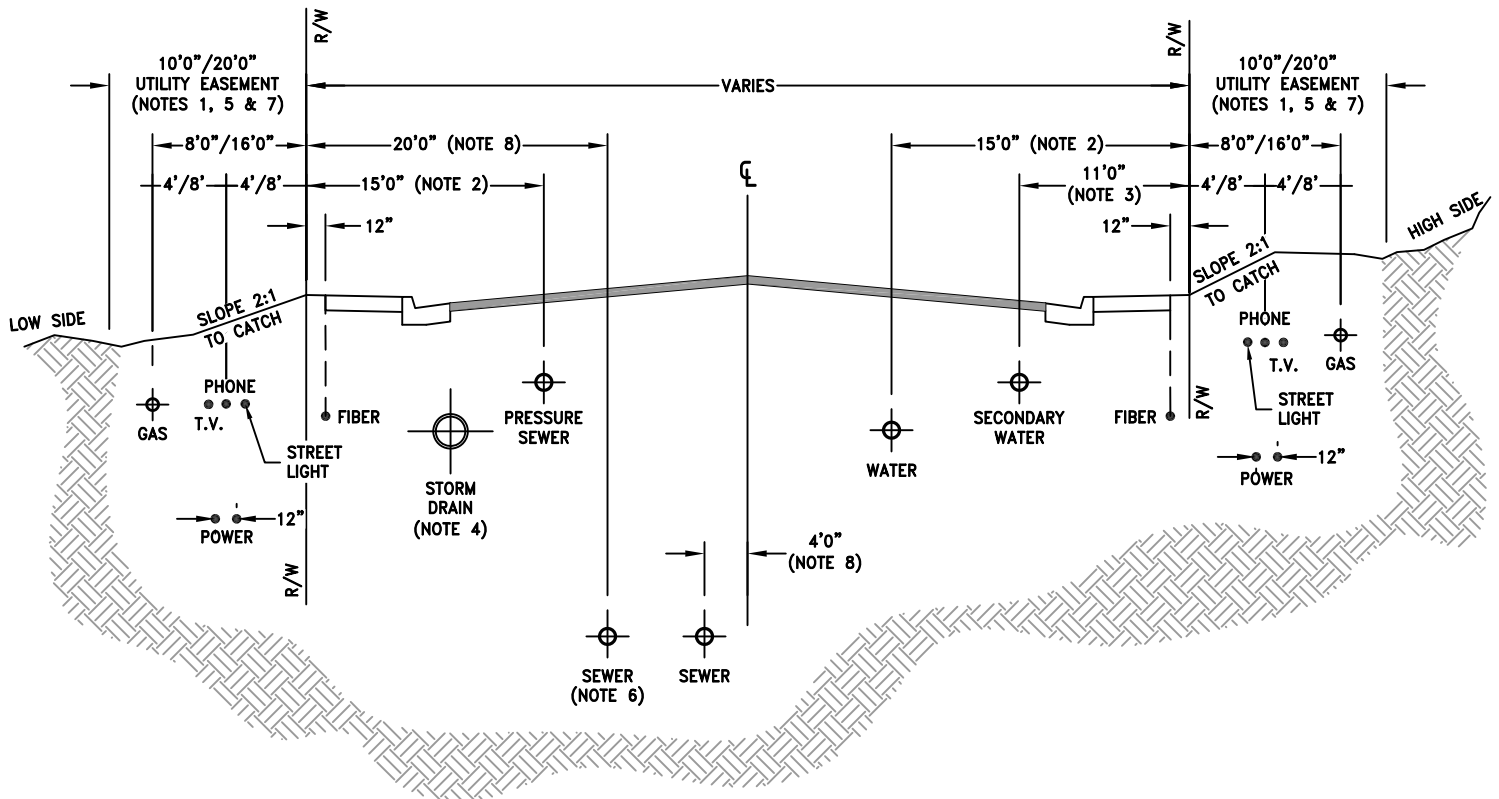
1. THIS DETAIL APPLIES TO THE INSTALLATION OF ALL SERVICE LATERALS. TRENCH WIDTH MINIMUMS DO NOT APPLY TO LATERALS LESS THAN 4".
2. IF PROFILE DRAWING OF THE PIPE IS PROVIDED, THE COVER SHALL BE AS SHOWN ON PROFILE SHEET.
3. TRENCH SIDE SLOPES AND/OR SHORING SHALL COMPLY w/ OSHA STANDARDS.
4. FOR HDPE PIPE WITH LESS THAN 12" COVER USE FLOWABLE FILL TO BOTTOM OF ASPHALT FROM BOTTOM OF PIPE.
5. MINIMUM DEPTH OF SEWER MANHOLE IS 48" OF COVER OVER TOP OF THE PIPE UNLESS OTHERWISE APPROVED BY ENOCH CITY.



TYPICAL TRENCH DETAIL
N.T.S.

NOTES:

1. TRENCH WIDTH, BEDDING, AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE AGENCY REQUIREMENTS.
2. TRENCH SIDE SLOPES AND/OR SHORING SHALL COMPLY WITH OSHA STANDARDS.



NOTES:

1. UTILITY EASEMENTS MUST BE PREPARED BY DEVELOPER TO RECEIVE UTILITIES.
2. 21'0" IF TRAIL EXISTS.
3. 17'0" IF TRAIL EXISTS.
4. LOCATE STORM DRAIN UNDER LIP OF CURB.
5. 10'0" IN RESIDENTIAL AREAS / 20'0" IN INDUSTRIAL & COMMERCIAL AREAS.
6. OPTIONAL FOR ARTERIALS AND MAJOR COLLECTORS ONLY.
7. ALL UTILITIES HAVE THE OPTION OF USING THE REAR LOT EASEMENT.
8. MEASURED AT CENTER OF MANHOLES.
9. MINIMUM REQUIRED SEPARATION BETWEEN WATER AND SEWER IS 10 FEET.

MINIMUM DEPTHS	
WATER	36"
TELEPHONE	30"
POWER	40"
GAS	30"
SEC. WATER	24"
SAN. SEWER	9'0"
STORM DRAIN	-
TELEVISION	30"
FIBER	30"



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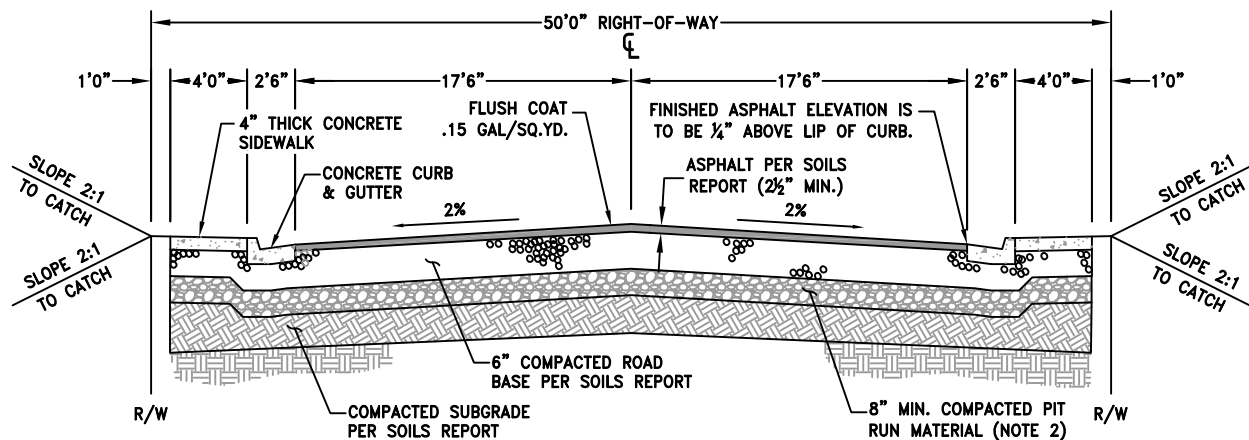
UTILITY LOCATION

SCALE:
N.T.S.
DATE:
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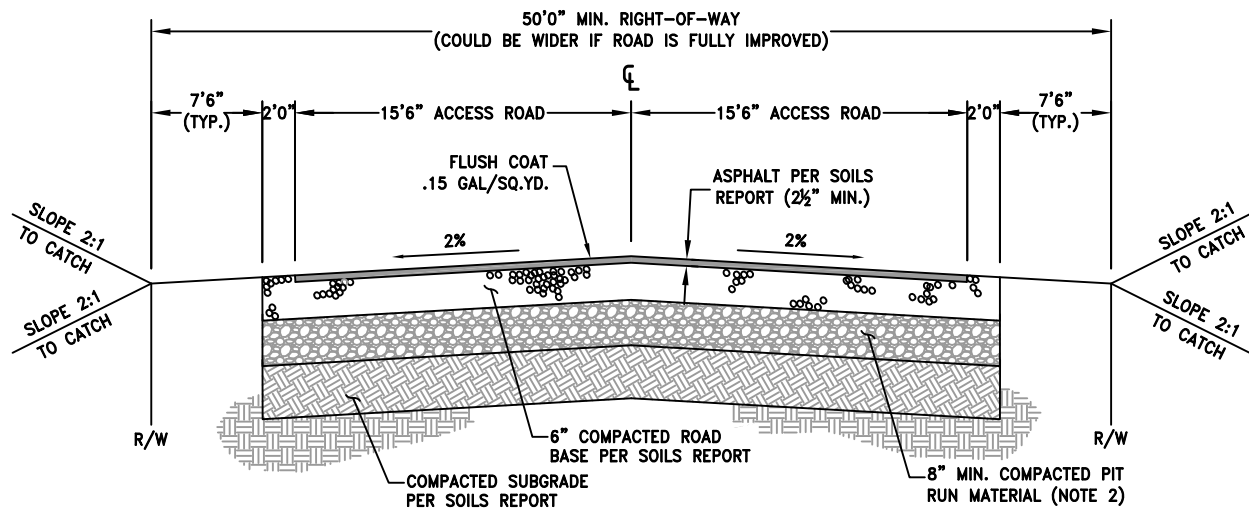
DETAIL No.:

R2.0

SHEET:
1 of 1



TYPICAL ROAD SECTION – 50'0" RIGHT-OF-WAY
N.T.S.



TYPICAL ROAD SECTION – UNIMPROVED ROAD
N.T.S.

NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.



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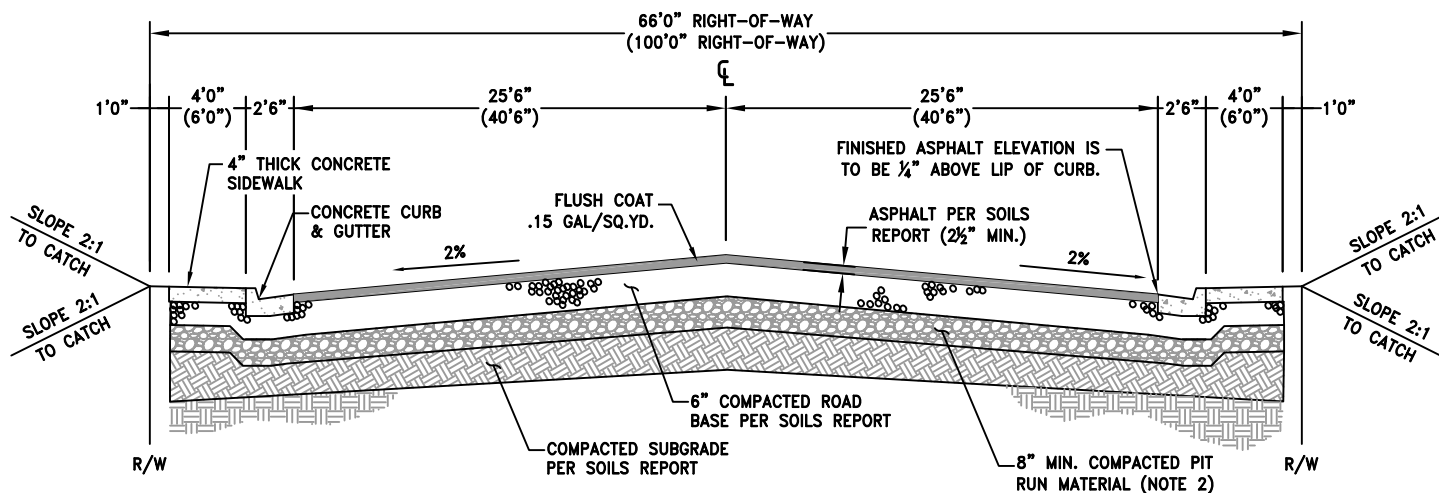
TYPICAL 50'0" ROAD SECTION

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R3.1

SHEET:
1 of 1



TYPICAL ROAD SECTION – 66'0" & 100'0" RIGHT-OF-WAYS
N.T.S.

NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.



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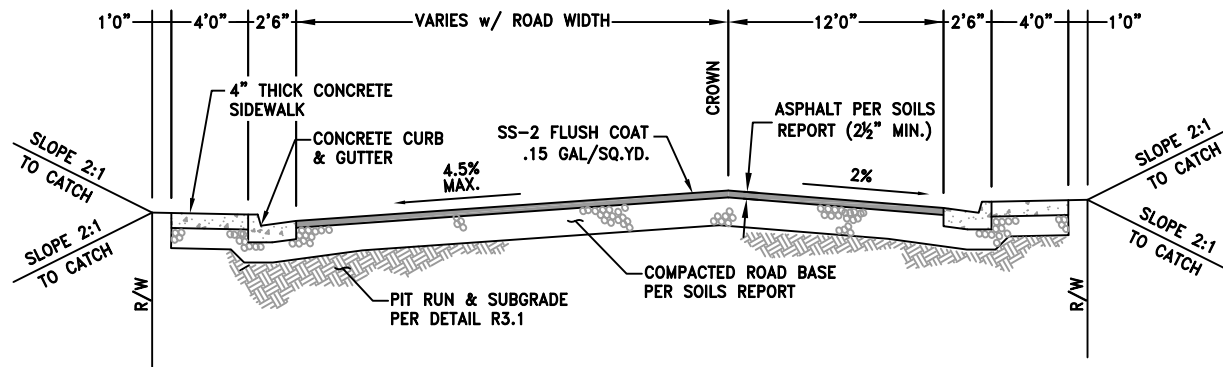
TYPICAL 66'0" &
100'0" ROAD
SECTIONS

SCALE:
N.T.S.
DATE:
DEC. 2022

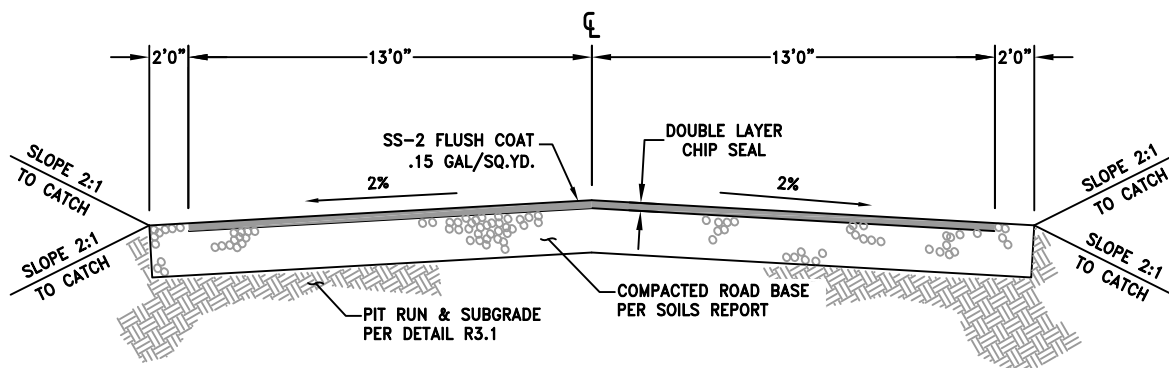
DETAIL No.:

R3.2

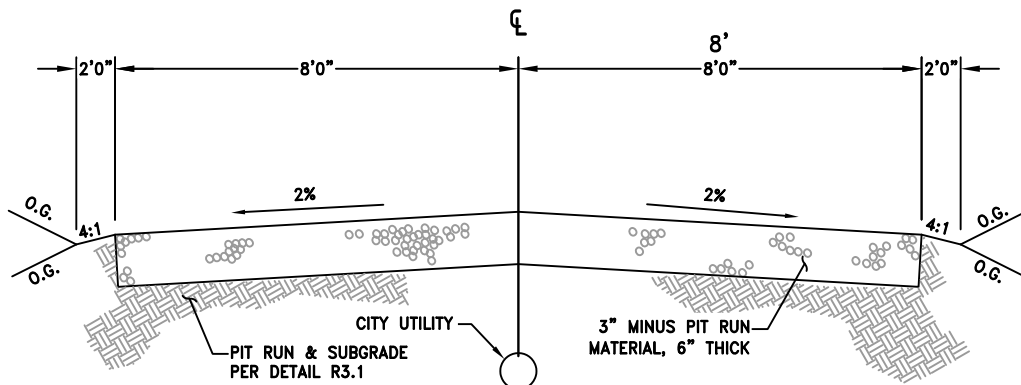
SHEET:
1 of 1



TYPICAL ROAD SECTION w/ CROSS SLOPE
N.T.S.



TYPICAL ROAD SECTION FOR TEMPORARY SECONDARY ACCESS
N.T.S.



TYPICAL ROAD SECTION FOR TEMPORARY CITY MAINTENANCE ACCESS
N.T.S.

NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.



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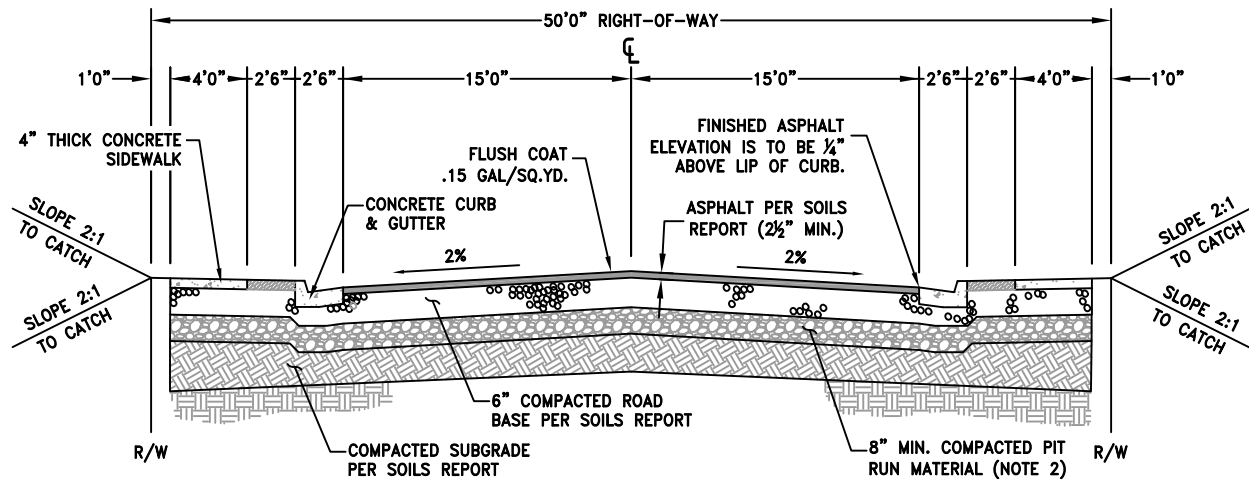
SPECIAL ROAD SECTIONS

SCALE:
N.T.S.
DATE:
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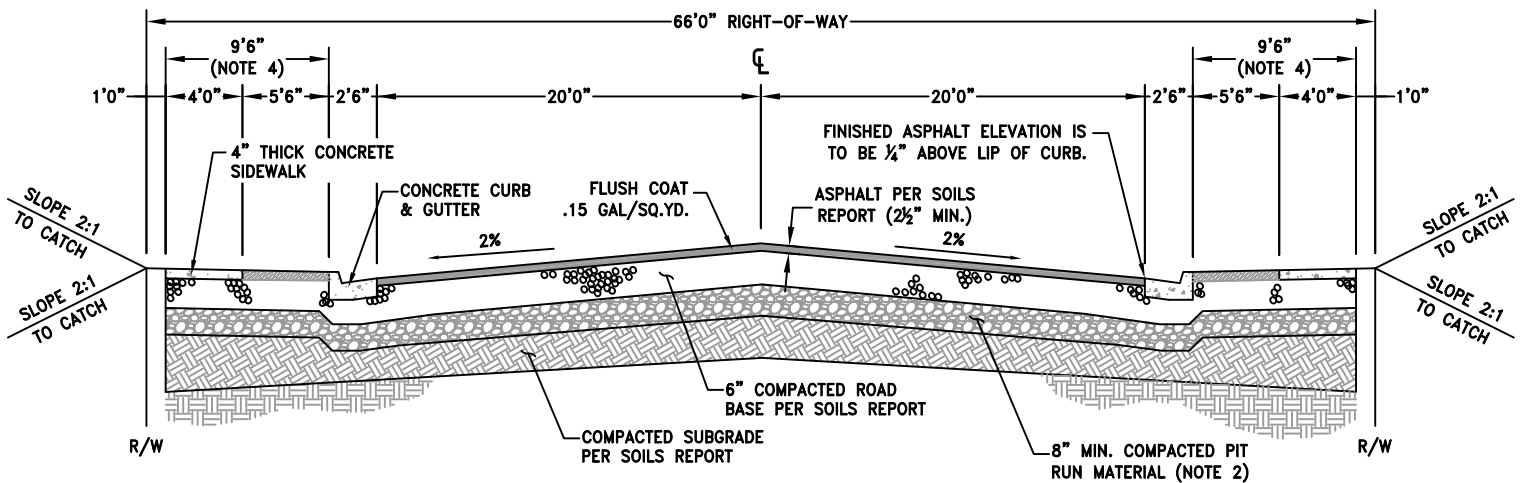
DETAIL No.:

R3.3

SHEET:
1 of 1



TYPICAL ROAD SECTION - 50'0" RIGHT-OF-WAY
N.T.S.



PLANTER STRIP ROAD SECTION - 66'0" RIGHT-OF-WAY
N.T.S.

NOTES:

- BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
- PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.
- VEGETATION FOR PLANTER STRIP LANDSCAPING TO FOLLOW APPROVED ENOCH CITY VEGETATION ORDINANCE.
- SIDEWALK MAY MEANDER WITHIN THE ALLOWABLE SPACE PROVIDED. A MINIMUM 4'0" SIDEWALK WIDTH MUST BE MAINTAINED.
- PLANTER STRIP TO BE MAINTAINED BY PROPERTY OWNER.
- 24" DEEP ROOT BARRIER IS REQUIRED FOR ALL TREES PLANTED IN THE PLANTER STRIP. THE ROOT BARRIER MUST BE AT LEAST 20 FEET LONG, CENTERED ON THE TREE TRUNK AND BE INSTALLED ADJACENT TO THE SIDEWALK AND BACK OF CURB.
- MAXIMUM TREE CANOPY (AT MATURITY) CAN BE 10-12 FEET MAXIMUM WIDTH.
- TREE LIMB HEIGHT MUST BE AT LEAST 20 FEET HIGH ABOVE THE STREET ASPHALT.
- NO TREES CAN BE PLANTED CLOSER THAN 5 FEET FROM WATER AND SEWER LATERALS.
- NO TREE SHALL BE PLANTED CLOSER THAN 30 FEET OF ANY STREET CORNER, MEASURED FROM THE POINT OF NEAREST INTERSECTING CURBS OR CURB LINES.
- NO TREE SHALL BE PLANTED CLOSER THAN 10 FEET OF ANY FIREPLUG.
- NO TREES OTHER THAN THOSE SPECIES LISTED AS SMALL TREES IN THE ENOCH CITY VEGETATION ORDINANCE MAY BE PLANTED UNDER or WITHIN 15 LATERAL FEET OF ANY OVERHEAD UTILITY WIRE.



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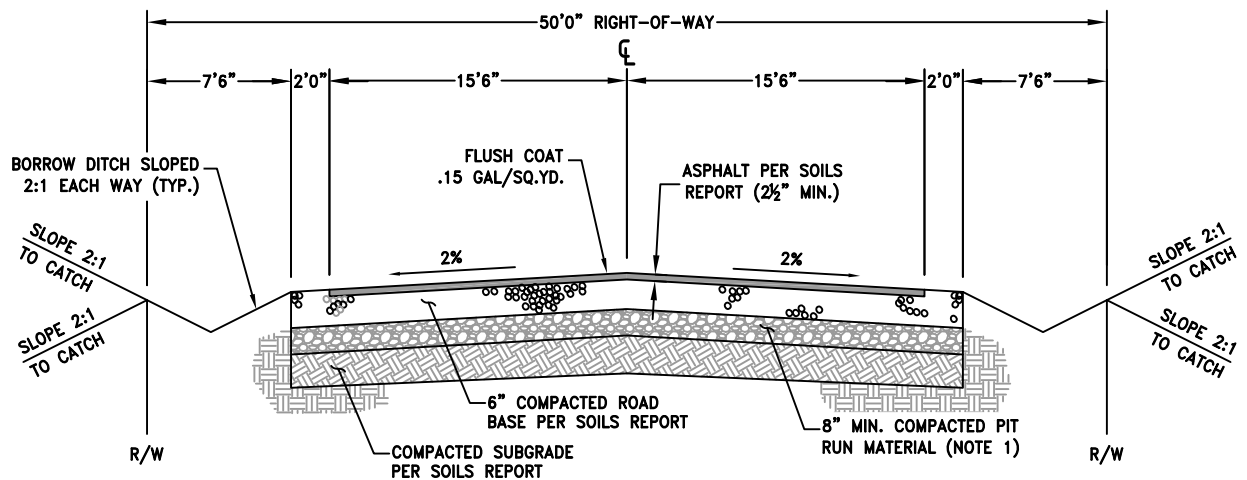
PLANTER STRIP ROAD SECTIONS

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R3.4

SHEET:
1 of 1



TYPICAL ROAD SECTION – UNIMPROVED ROAD w/ BORROW DITCH
N.T.S.

NOTES:

1. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.



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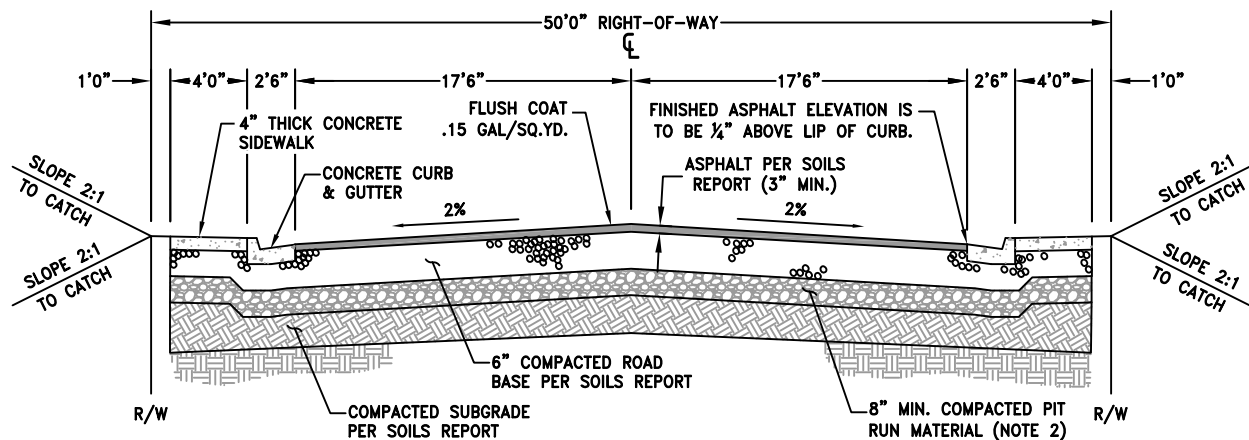
RESIDENTIAL ESTATE
ROAD SECTION

SCALE:
N.T.S.
DATE:
DEC. 2022

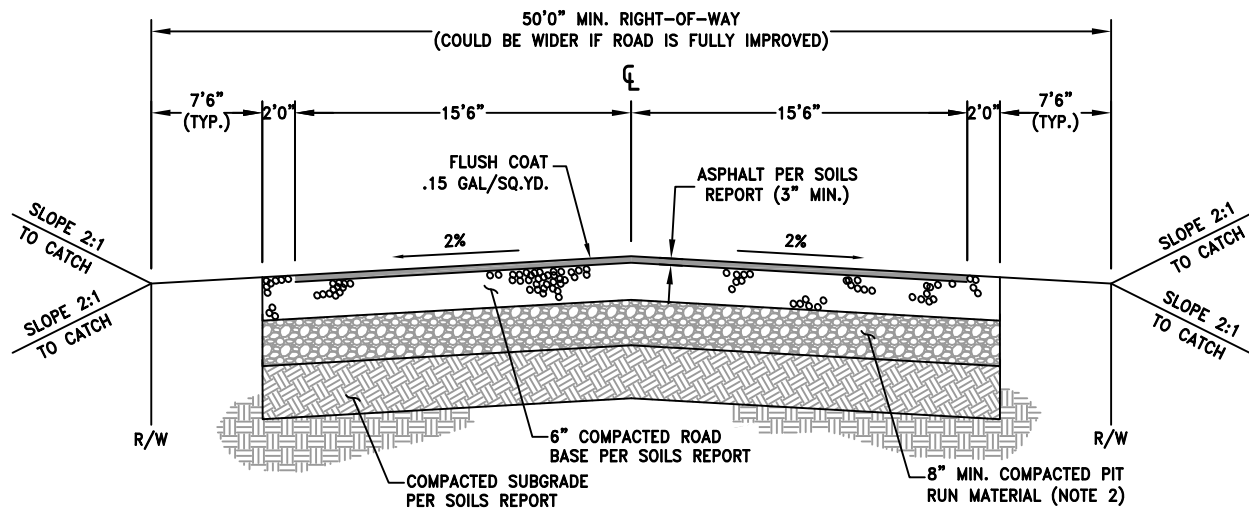
DETAIL No.:

R3.5

SHEET:
1 of 1



TYPICAL INDUSTRIAL ROAD SECTION – 50'0" RIGHT-OF-WAY
N.T.S.



TYPICAL INDUSTRIAL ROAD SECTION – UNIMPROVED ROAD
N.T.S.

NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.



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TYPICAL 50'0"
INDUSTRIAL ROAD
SECTION

SCALE:
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DATE:
DEC. 2022

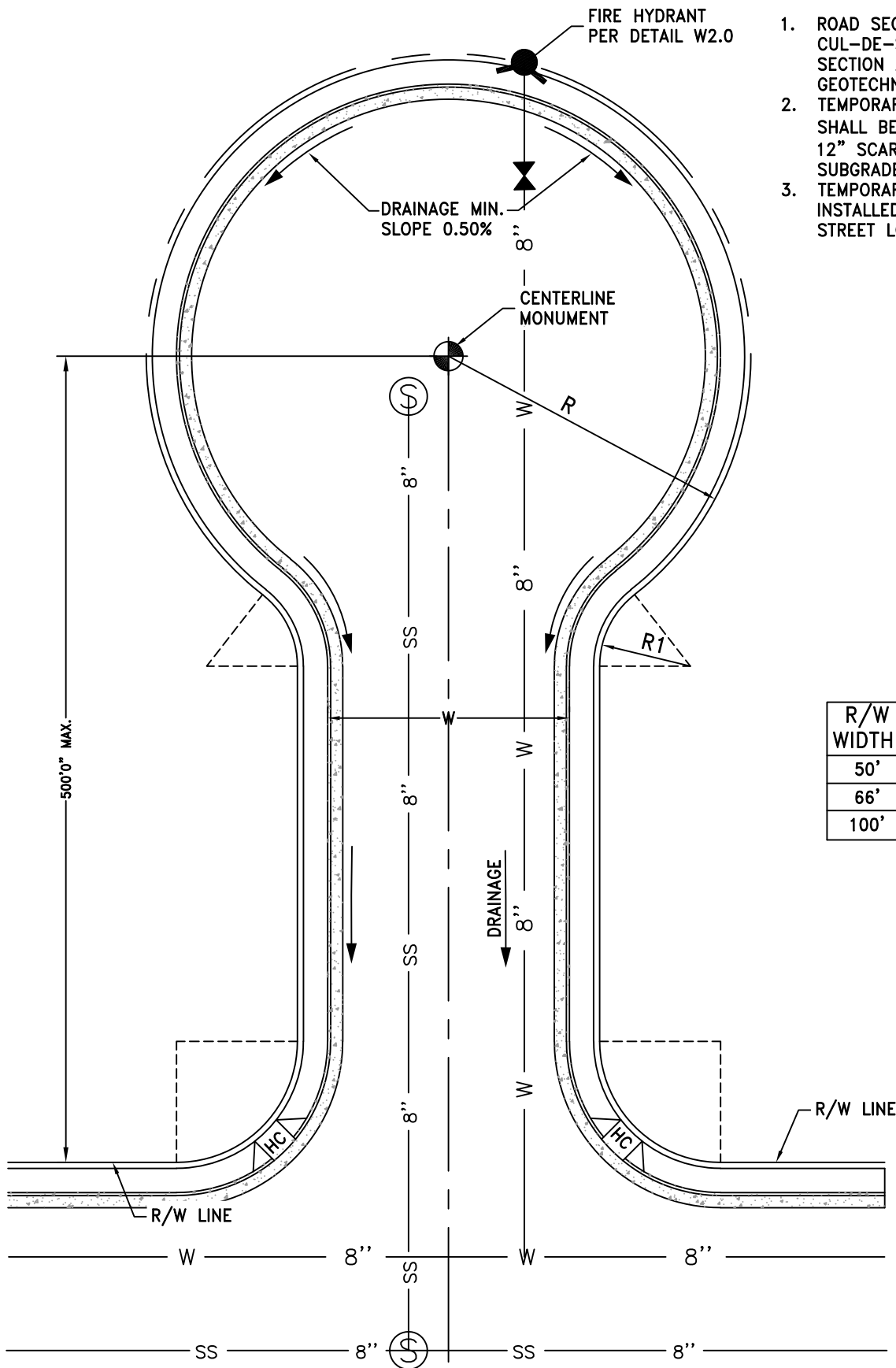
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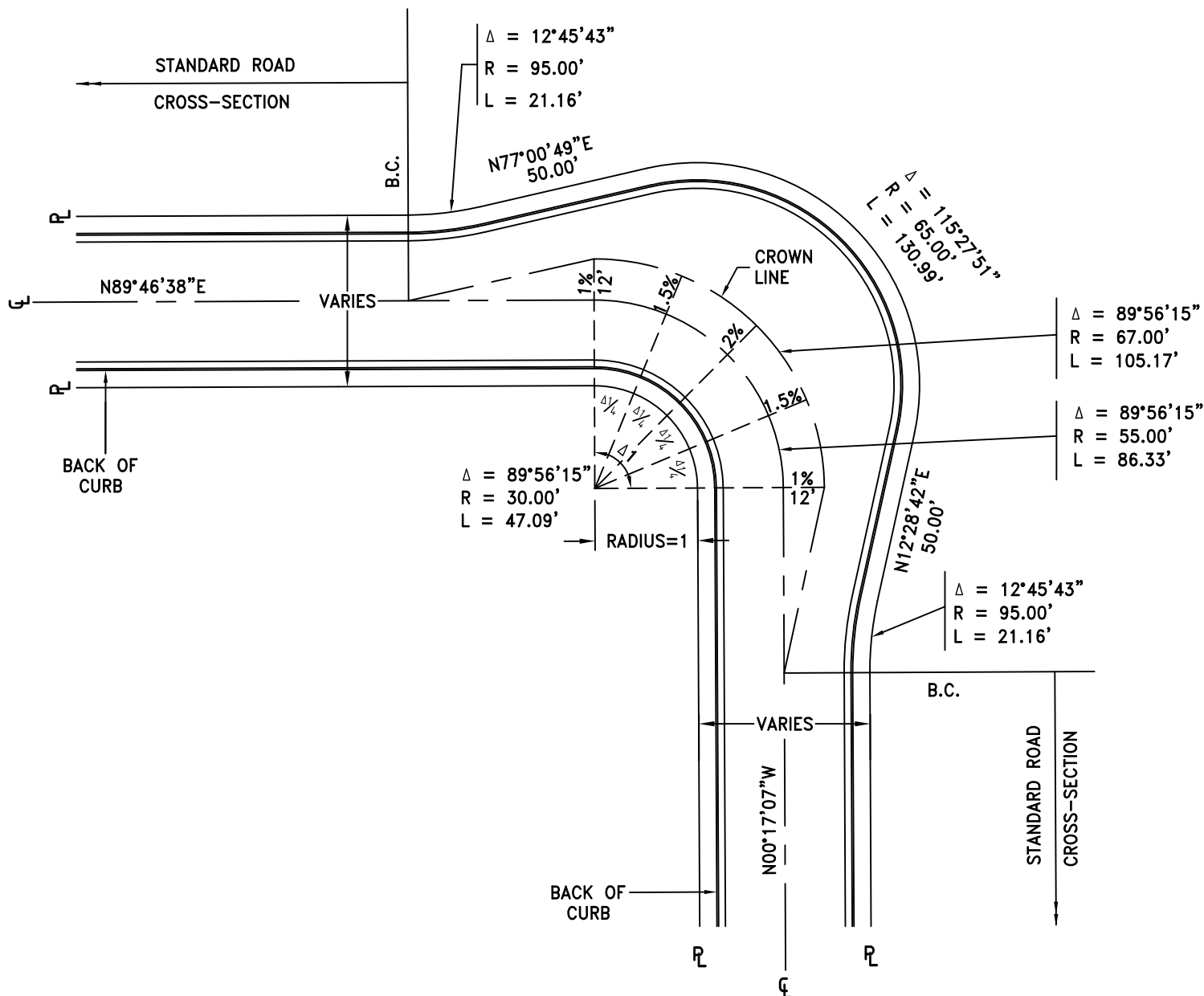
R3.6

SHEET:
1 of 1

NOTES:

1. ROAD SECTIONS FOR PERMANENT CUL-DE-SACS SHALL BE THE SAME ROAD SECTION AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. TEMPORARY CUL-DE-SAC ROAD SECTIONS SHALL BE 6" COMPACTED ROAD BASE ON 12" SCARIFIED AND RECOMPACTED SUBGRADE.
3. TEMPORARY CUL-DE-SACS SHALL BE INSTALLED ON ANY TEMPORARY DEAD END STREET LONGER THAN 140 FEET.





NOTES:

1. USE NORMAL SECTION FROM INNER CURB TO CENTER LINE.
2. FROM CROWN LINE TO OUTER CURB, THE STANDARD SLOPE IS 2%.
3. SUPER ELEVATION PERCENTAGES SHOWN ARE A STRAIGHT GRADE FROM CENTER LINE TO CROWN.
4. ELEVATIONS ARE REQUIRED AT EACH B.C.
5. KNUCKLES ARE ALLOWED ON 50'0" STREETS ONLY.
6. $\Delta 1 > 75^\circ$ USE RADIUS 1=30' MIN.
65° TO 75° USE RADIUS 1=35' MIN.
55° TO 65° USE RADIUS 1=45' MIN.



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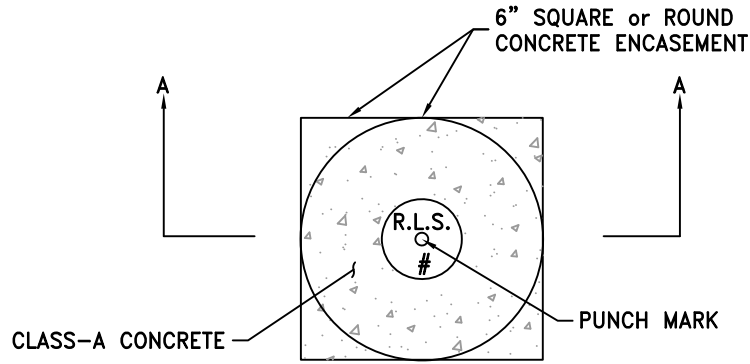
TYPICAL KNUCKLE FOR 50'0" WIDE STREET

SCALE:
N.T.S.
DATE:
DEC. 2022

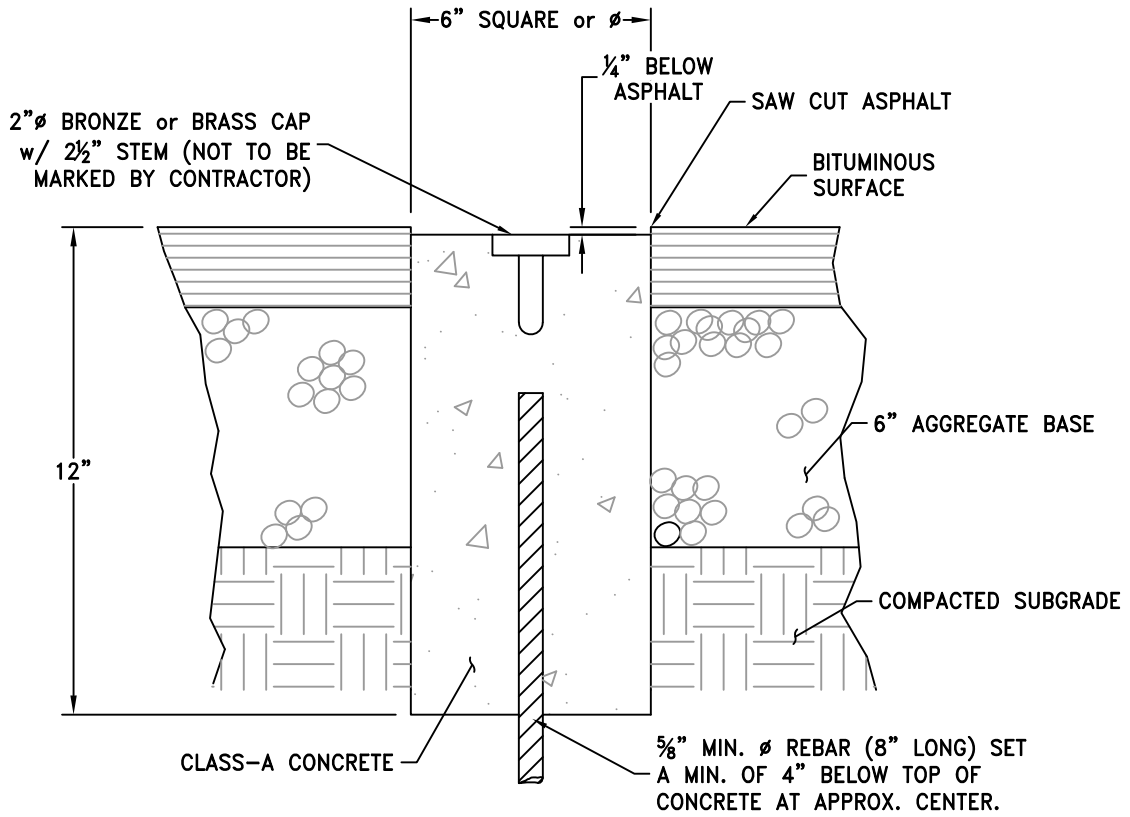
DETAIL No.:

R5.0

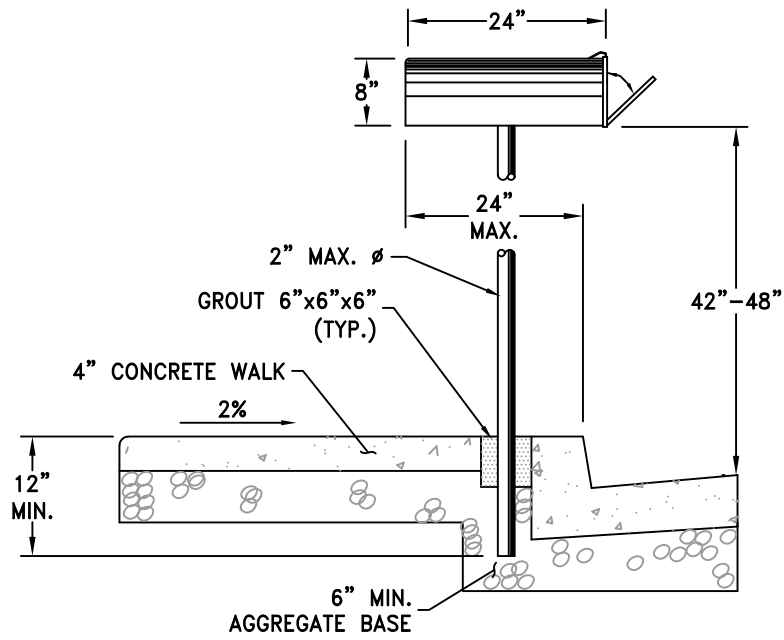
SHEET:
1 of 1



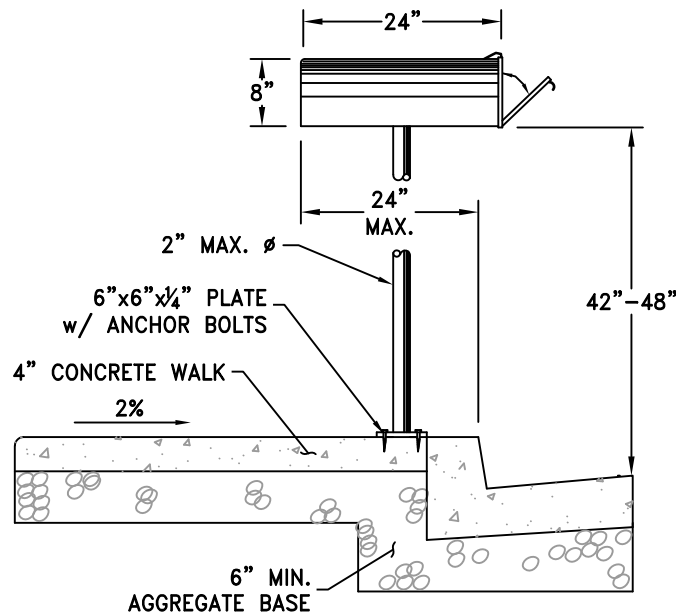
PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.



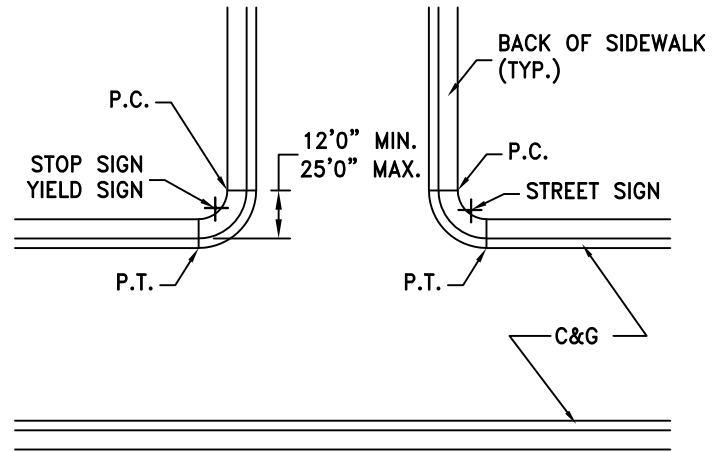
TYPICAL SECTION (GROUTED)
N.T.S.



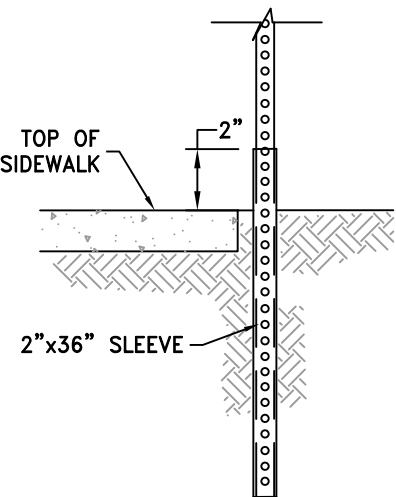
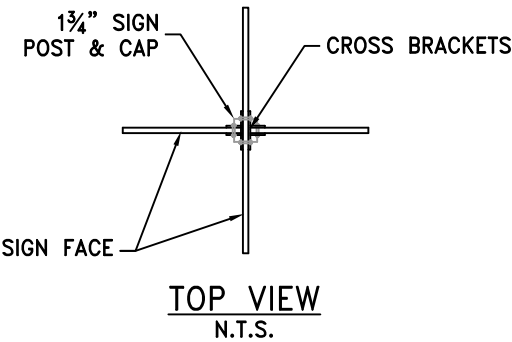
TYPICAL SECTION (ANCHOR BOLTS)
N.T.S.

NOTES:

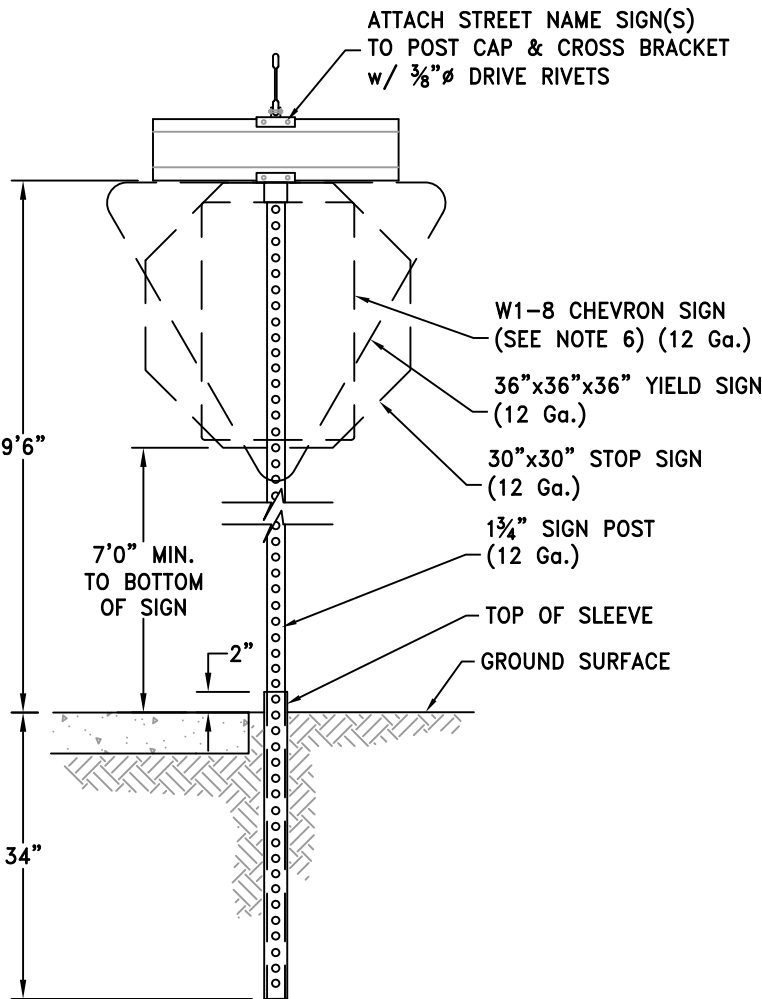
- 1. SIGN POST SHALL BE SQUARE, GALVANIZED AND PERFORATED ON ALL FOUR SIDES.
- 2. ATTACH POST TO SLEEVE BY USING AT LEAST TWO $\frac{3}{8}$ " \varnothing DRIVE RIVETS or BOLTS.
- 3. PROVIDE 6" MINIMUM LAP BETWEEN POST AND THE SLEEVE.
- 4. UNLESS APPROVED, ALL SIGNS SHALL BE PLACED BEHIND THE SIDEWALK, MIDWAY BETWEEN THE P.C. & P.T. OF THE CURVE OF THE SIDEWALK.
- 5. UNLESS OTHERWISE INDICATED HEREON SIGN FACE SIZES SHALL NOT BE LESS THAN THE SIGN SIZES FOR CONVENTIONAL ROADS AS RECOMMENDED IN THE LATEST APPROVED VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)



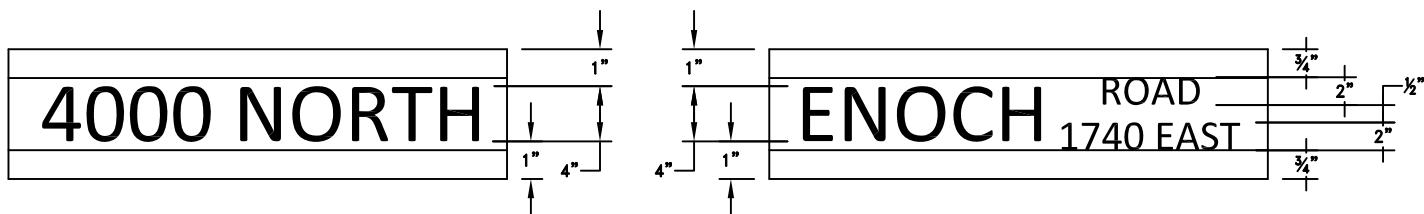
STOP & STEET SIGN LOCATION DETAIL
N.T.S.



SECTION
N.T.S.



INSTALLATION DETAIL
N.T.S.



SINGLE LINE SIGN 6"
N.T.S.

DOUBLE LINE SIGN 6"
N.T.S.

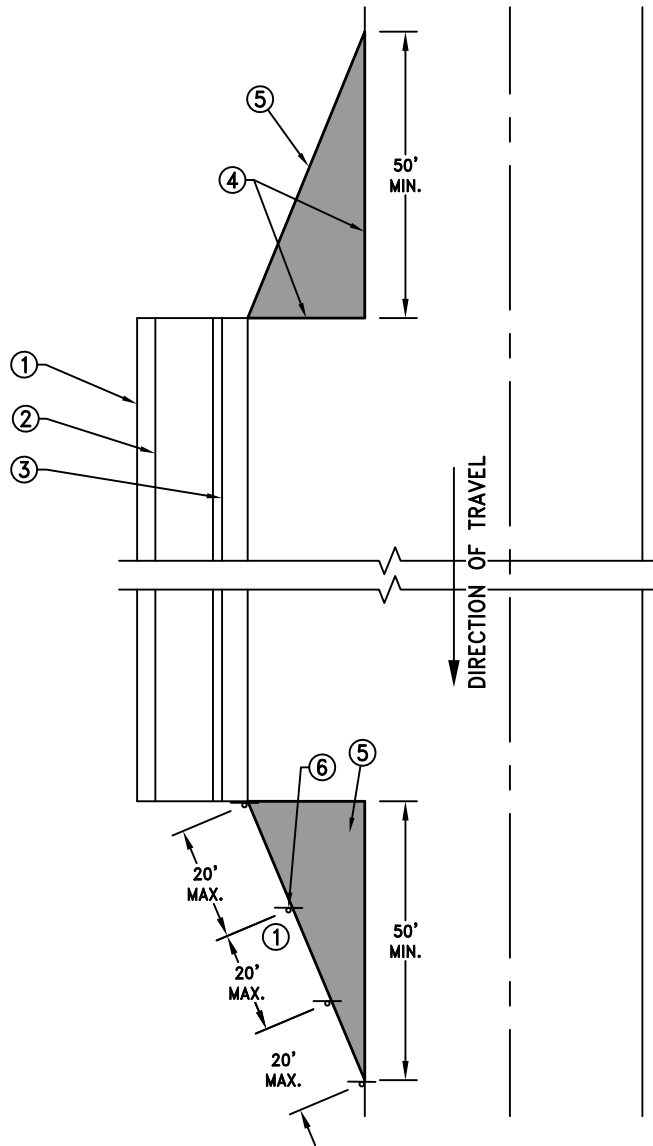


SIGN CROSS-SECTION
N.T.S.

NOTES:

1. SIGNS SHALL BE "EXTRUDED BLADE".
2. SIGN FACE SHALL BE WHITE LETTERS ON GREEN BACKGROUND 100% HIGH INTENSITY OR DIAMOND GRADE REFLECTIVE SHEETING BOTH LETTERS AND BACKGROUND.
3. ALL LETTERS SHALL BE UPPER CASE. ALL LETTERS AND NUMBERS SHALL CONFORM TO THE HEIGHT, WIDTH AND STROKE WIDTH, AND SPACING, AS PER U.S. DEPARTMENT OF TRANSPORTATION PUBLICATION "STANDARD ALPHABETS FOR HIGHWAY SIGNS".
4. SERIES LETTERS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS AS DETERMINED BY CLASS OF SIGN CALLED FOR.
5. DOUBLE LINED SIGNS ARE USED FOR STREETS HAVING BOTH NUMBERS AND NAMES. THE STREET NUMBER SHALL BE THE PRIMARY COPY.
6. 6061 - T6 HEAT TREATED HIGH TENSILE DEGREASED AND ALODINE 1200 FINISH. THICKNESS TO BE 0.08 FOR 6" BLADE.

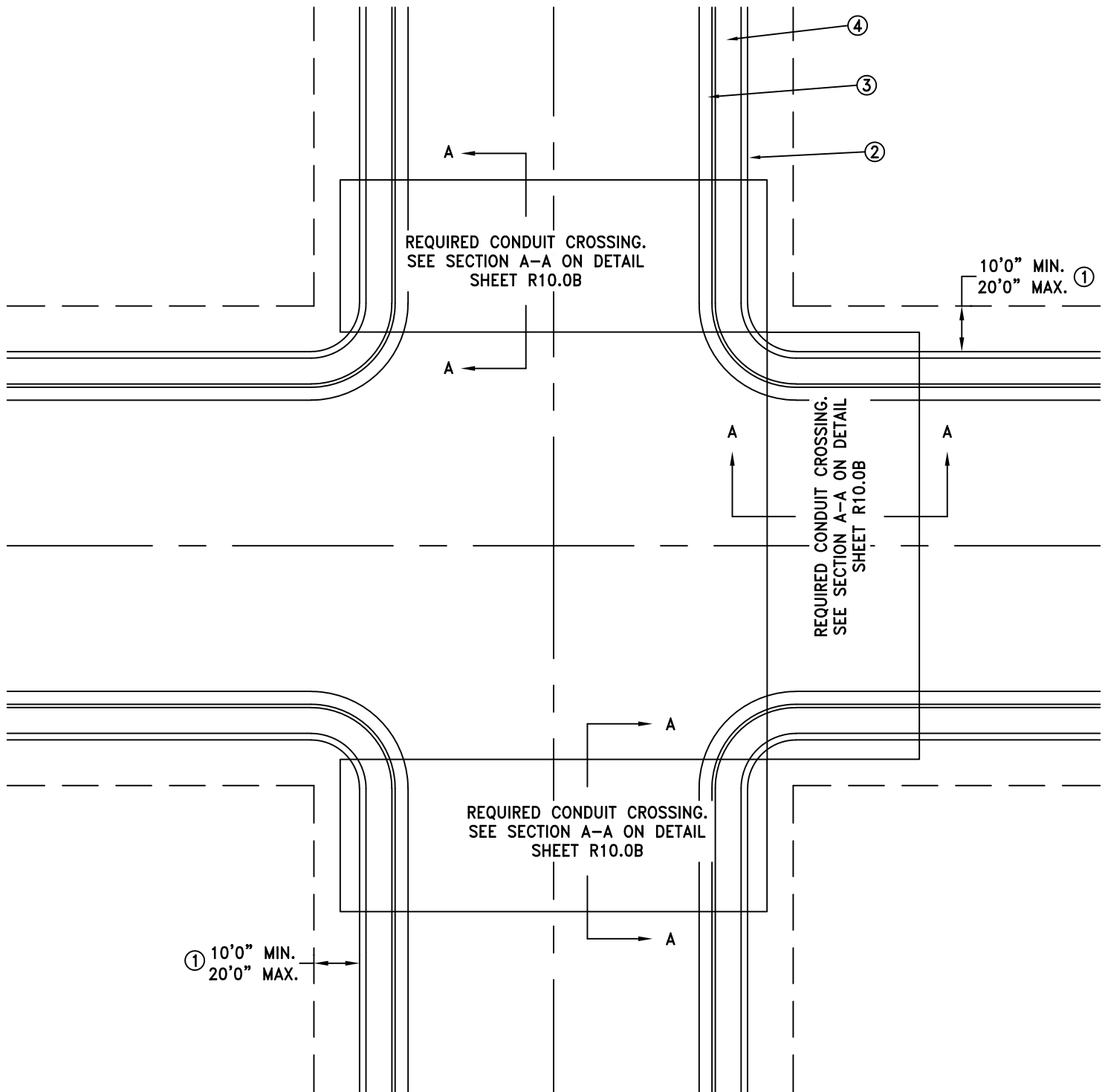
SIGN CLASS	SIGN LENGTH	PRIMARY COPY	SUFFIX COPY
SINGLE LINE 6"	24"	4" C, D SERIES	
	30"	4" C, D SERIES	
	36"	4" A, B, C, D SERIES	
DOUBLE LINE 6"	24"	4" C, D SERIES	2" C SERIES
	30"	4" C, D SERIES	2" C SERIES
	36"	4" A, B, C, D SERIES	2" C SERIES

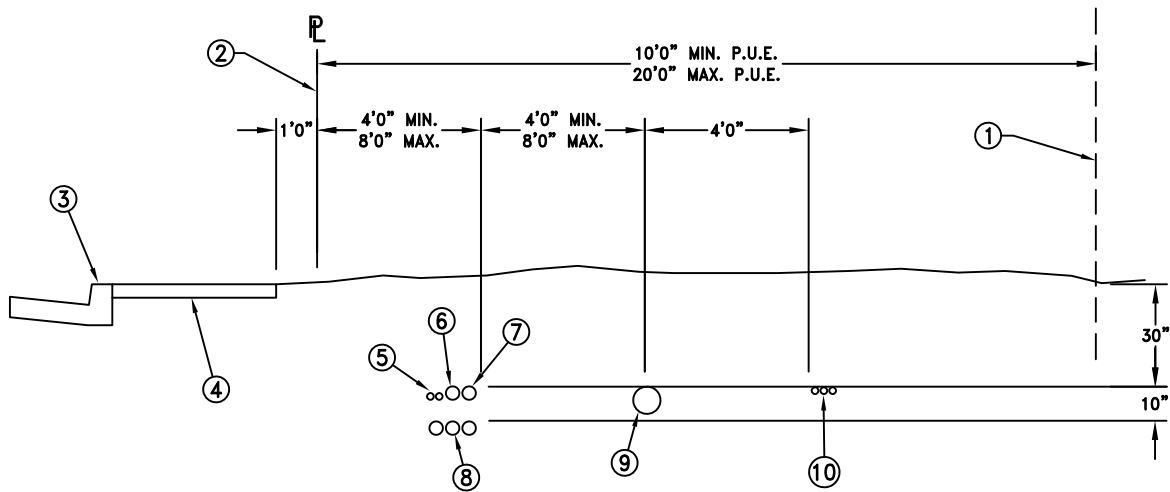


ASPHALT TAPER DETAIL
N.T.S.

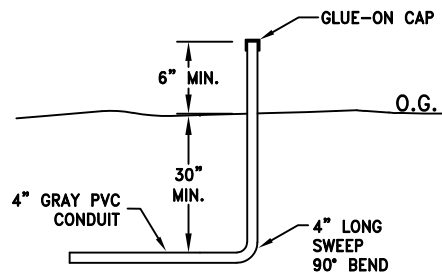
CONSTRUCTION NOTES:

- ① RIGHT OF WAY LINE
- ② SIDEWALK
- ③ CURB AND GUTTER
- ④ SAW CUT REQUIRED
- ⑤ ASPHALT TAPER PER SOILS REPORT
- ⑥ CHEVRON SIGNS PER INSTALLATION
DETAIL (ONE SIGN AT CURB AND
ASPHALT, THENCE EVERY 20'0" MAX.





SECTION 'A-A' - TYPICAL CONDUIT CROSSING LAYOUT
N.T.S.



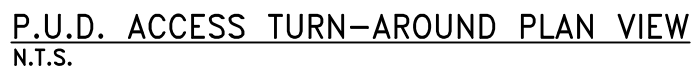
DETAIL 'A'- SPARE CONDUIT VERTICAL LOCATE RISER
N.T.S.

CONSTRUCTION NOTES:

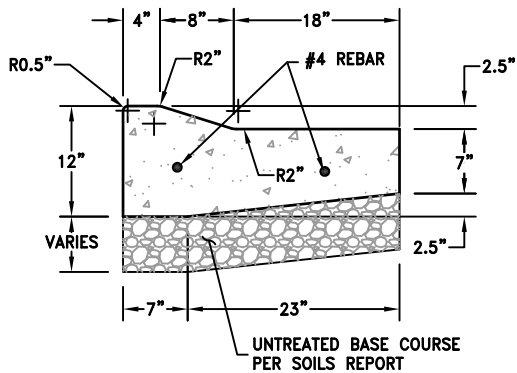
- ① CHEVRON SIGNS PER INSTALLATION DETAIL (ONE SIGN AT CURB AND ASPHALT, THENCE EVERY 20'0" MAX.
- ② PROPERTY LINE
- ③ CURB AND GUTTER
- ④ SIDEWALK
- ⑤ (2) 2" GRAY PVC CABLE T.V. CONDUITS (TYP.)
- ⑥ (1) 4" GRAY PVC TELEPHONE CONDUIT (TYP.)
- ⑦ (1) 4" GRAY PVC SPARE CONDUIT w/ LOCATION RISER (TYP.) SEE DETAIL 'A'
- ⑧ (3) 6" GRAY PVC ELECTRICAL CONDUITS (TYP.)
- ⑨ (1) 8" SCH40 - WHITE PVC GAS CONDUIT (TYP.)
- ⑩ (3) 2" GRAY PVC CONDUITS FOR SIGNALS (TYP.) (SEE NOTE 2)

NOTES:

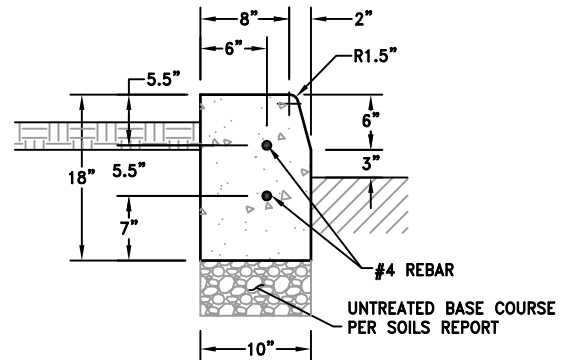
1. EXTEND ALL CONDUITS 3'0" BEYOND PROPERTY LINE.
2. SIGNAL CONDUITS INSTALLED ONLY AT INTERSECTIONS OF ARTERIALS WITH MAJOR COLLECTORS AND INTERSECTIONS OF TWO ARTERIALS.
3. CONDUITS CAN BE ELIMINATED WITH WRITTEN APPROVAL OF UTILITIES.
4. ALL CONDUIT TRENCHES TO BE COMPACTED TO 95% OF MAXIMUM FOR FULL DEPTH.
5. CONDUITS LOCATED ON ALL INTERSECTION LEGS BUT ONE.



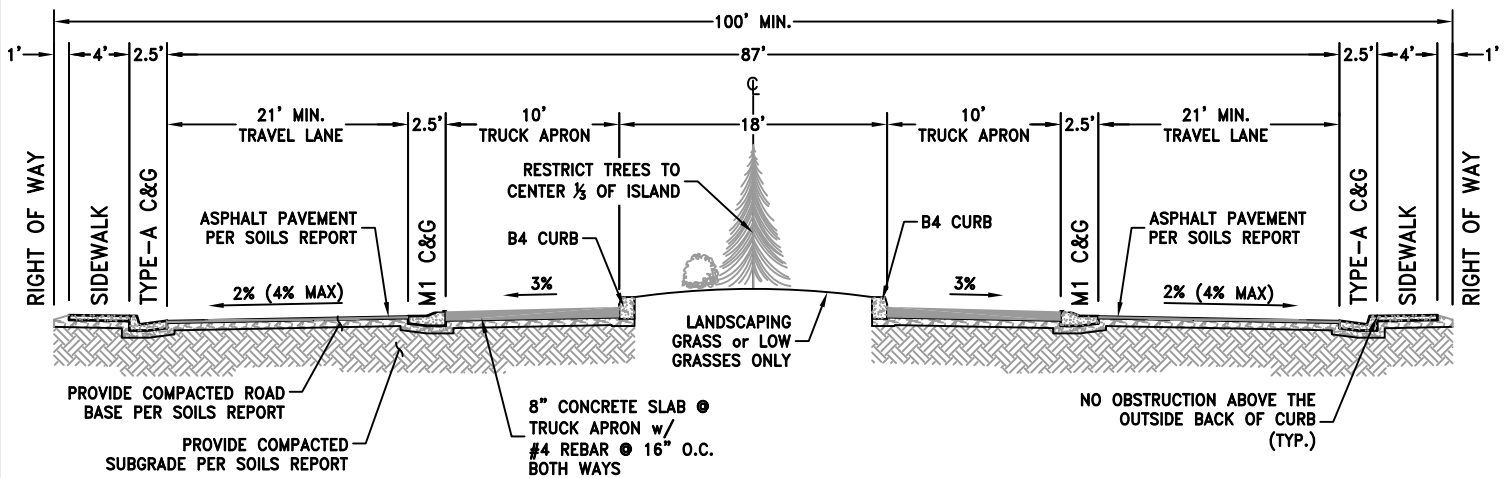
1. INTERIOR ISLAND, INCLUDING M1 & B4 CURB, TRUCK APRON AND LANDSCAPE AREA IS OPTIONAL.
2. PROPER SIGNAGE IS NEEDED FOR A ROUNDABOUT SITUATION.



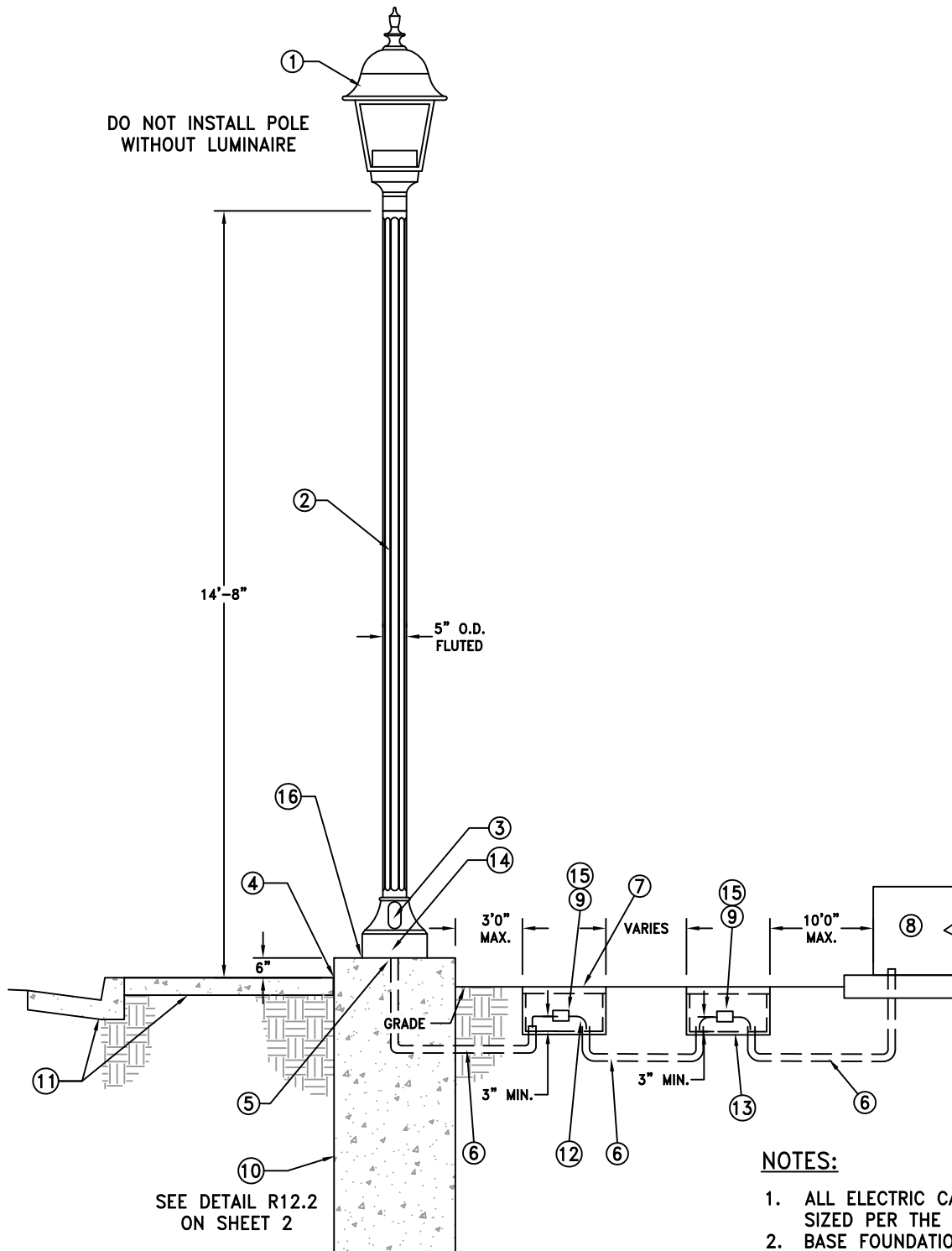
TYPE M1 CURB & GUTTER
N.T.S.



TYPE B4 CURB
N.T.S.



P.U.D. ACCESS TURN-AROUND CROSS SECTION
N.T.S.



NOTES:

1. ALL ELECTRIC CABLES AND CONDUITS SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE.
2. BASE FOUNDATIONS IN SIDEWALK SHALL HAVE A $\frac{1}{2}$ " EXPANSION JOINT AROUND THE BASE.
3. ALL STREET LIGHT LOCATIONS TO BE COORDINATED WITH POWER COMPANY WITH SECTION 4.5.2.IV AND TABLE 4.13 PER ENOCH CITY ENGINEERING DESIGN STANDARDS.



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COMMERCIAL STREET LIGHT

SCALE:
N.T.S.

DATE:
DEC. 2022

DETAIL No.:

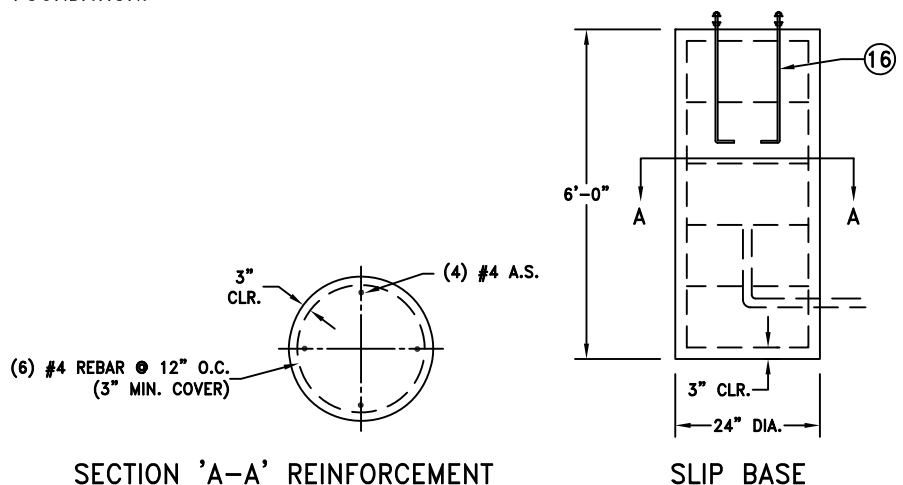
R12.2A

SHEET:
1 of 2

CONSTRUCTION NOTES:

- ① 'DARK SKY' COMPLIANT LIGHT FIXTURE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.I AND TABLE 4.12
- ② POLE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.II AND TABLE 4.13
- ③ HAND-HOLE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.II
- ④ POLE BASE AT BACK OF SIDEWALK WITH TOP OF BASE CONCRETE TO BE 6" HIGHER THAN TOP OF SIDEWALK. $\frac{1}{2}$ "x6" FELT BETWEEN LIGHT BASE AND SIDEWALK.
- ⑤ POWER FEED ROUTED THROUGH POLE BASE IN 1"Ø PVC CONDUIT.
- ⑥ 1" PVC CONDUIT (BY DEVELOPER).
- ⑦ STREETLIGHT JUNCTION BOX TO BE PLACED AT EACH STREET LIGHT, NORDIC FIBERGLASS INC. DWG. NO. PHH2-161912-MG, OR CARSON 1324-12-15-4PL/GRN/ELEC. O.A.E. (BY DEVELOPER).
- ⑧ TRANSFORMER or SECONDARY JUNCTION BOX (BY POWER COMPANY).

A 5 AMP IN-LINE FUSE WILL BE INSTALLED BY THE CONTRACTOR ON THE 120 VOLT LINE CONNECTING TO THE POWER COMPANY'S SECONDARY POWER IN THE BOX. FUSE HOLDER TO BE A GOULD FEBIII w/ A FSBI, O.A.E.
- ⑩ CONCRETE BASE FOUNDATION, TYPE A CONCRETE, REINFORCEMENT AS SHOWN.
- ⑪ CURB, GUTTER & SIDEWALK (BY OTHERS)
- ⑫ ALL WIRING & WIRE SIZES PER NEC.
- ⑬ POWER SUPPLY JUNCTION BOX, NORDIC FIBERGLASS INC. DWG. NO. PHH2-161912-MG, O.A.E. (BY DEVELOPER) NOTE: THIS BOX CAN BE ELIMINATED IF THE STREET LIGHT BOX IS WITHIN 10 FEET OF THE POWER COMPANY POWER SOURCE.
- ⑭ ANCHOR BOLTS MATERIAL, SIZE & PATTERN PER POLE MANUFACTURES REQUIREMENTS.
- ⑮ ALL ELECTRICAL CABLE SPLICE CONNECTORS SHALL BE WATERPROOF 3M DIRECT BURY SPLICE KITS O.A.E.
- ⑯ NON-SHRINK GROUT BETWEEN POLE BASE AND FOUNDATION.



LIGHT POLE FOUNDATION DETAIL
N.T.S.



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COMMERCIAL STREET LIGHT

SCALE:
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DATE:
DEC. 2022

DETAIL No.:

R12.2B

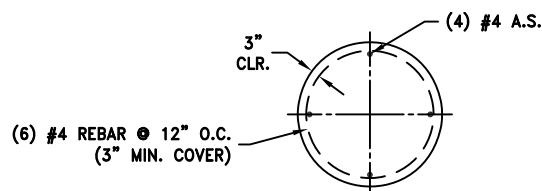
SHEET:
2 of 2

1. ALL ELECTRIC CABLES AND CONDUITS SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE.
2. BASE FOUNDATIONS IN SIDEWALK SHALL HAVE A ½" EXPANSION JOINT AROUND THE BASE.
3. ALL STREET LIGHT LOCATIONS TO BE COORDINATED WITH POWER COMPANY WITH SECTION 4.5.2.IV AND TABLE 4.13 PER ENOCH CITY ENGINEERING DESIGN STANDARDS.

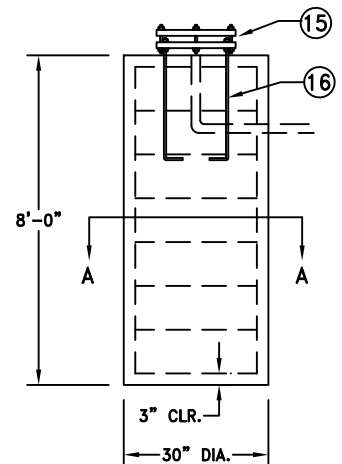


CONSTRUCTION NOTES:

- ① 'DARK SKY' COMPLIANT LIGHT FIXTURE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.I AND TABLE 4.12
- ② POLE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.II AND TABLE 4.13
- ③ $\frac{5}{8}$ "x6'0" COPPER COATED STEEL GROUND ROD w/ NO.6 GROUND WIRE CONNECTED TO GROUND LUG AT HAND HOLE.
- ④ HAND-HOLE PER ENOCH CITY ENGINEERING DESIGN STANDARDS, SECTION 4.5.1.II
- ⑤ POLE BASE AT BACK OF SIDEWALK WITH TOP OF BASE CONCRETE TO BE 6" HIGHER THAN TOP OF SIDEWALK. $\frac{1}{2}$ "x6" FELT BETWEEN LIGHT BASE AND SIDEWALK.
- ⑥ POWER FEED ROUTED THROUGH POLE BASE IN 1"Ø PVC CONDUIT.
- ⑦ 1" PVC CONDUIT (BY DEVELOPER).
- ⑧ STREETLIGHT JUNCTION BOX TO BE PLACED AT EACH STREET LIGHT, NORDIC FIBERGLASS INC. DWG. NO. PHH2-161912-MG, OR CARSON 1324-12-15-4PL/GRN/ELEC. O.A.E. (BY DEVELOPER).
- ⑨ TRANSFORMER or SECONDARY JUNCTION BOX (BY POWER COMPANY).
- ⑩ A 5 AMP IN-LINE FUSE WILL BE INSTALLED BY THE CONTRACTOR ON THE 120 VOLT LINE CONNECTING TO THE POWER COMPANY'S SECONDARY POWER IN THE BOX. FUSE HOLDER TO BE A GOULD FEBIII w/ A FSBI, O.A.E.
- ⑪ CONCRETE BASE FOUNDATION, TYPE A CONCRETE, REINFORCEMENT AS SHOWN.
- ⑫ CURB, GUTTER & SIDEWALK (BY OTHERS)
- ⑬ ALL WIRING & WIRE SIZES PER NEC.
- ⑭ POWER SUPPLY JUNCTION BOX, NORDIC FIBERGLASS INC. DWG. NO. PHH2-161912-MG, O.A.E. (BY DEVELOPER) NOTE: THIS BOX CAN BE ELIMINATED IF THE STREET LIGHT BOX IS WITHIN 10 FEET OF THE POWER COMPANY POWER SOURCE.
- ⑮ SLIP BASE PER POLE MANUFACTURES DETAIL.
- ⑯ ANCHOR BOLTS MATERIAL, SIZE & PATTERN PER POLE MANUFACTURES REQUIREMENTS.
- ⑰ ALL ELECTRICAL CABLE SPLICE CONNECTORS SHALL BE WATERPROOF 3M DIRECT BURY SPLICE KITS O.A.E.
- ⑱ NON-SHRINK GROUT BETWEEN POLE BASE AND FOUNDATION.



SECTION 'A-A' REINFORCEMENT



SLIP BASE

LIGHT POLE FOUNDATION DETAIL
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INDUSTRIAL STREET LIGHT

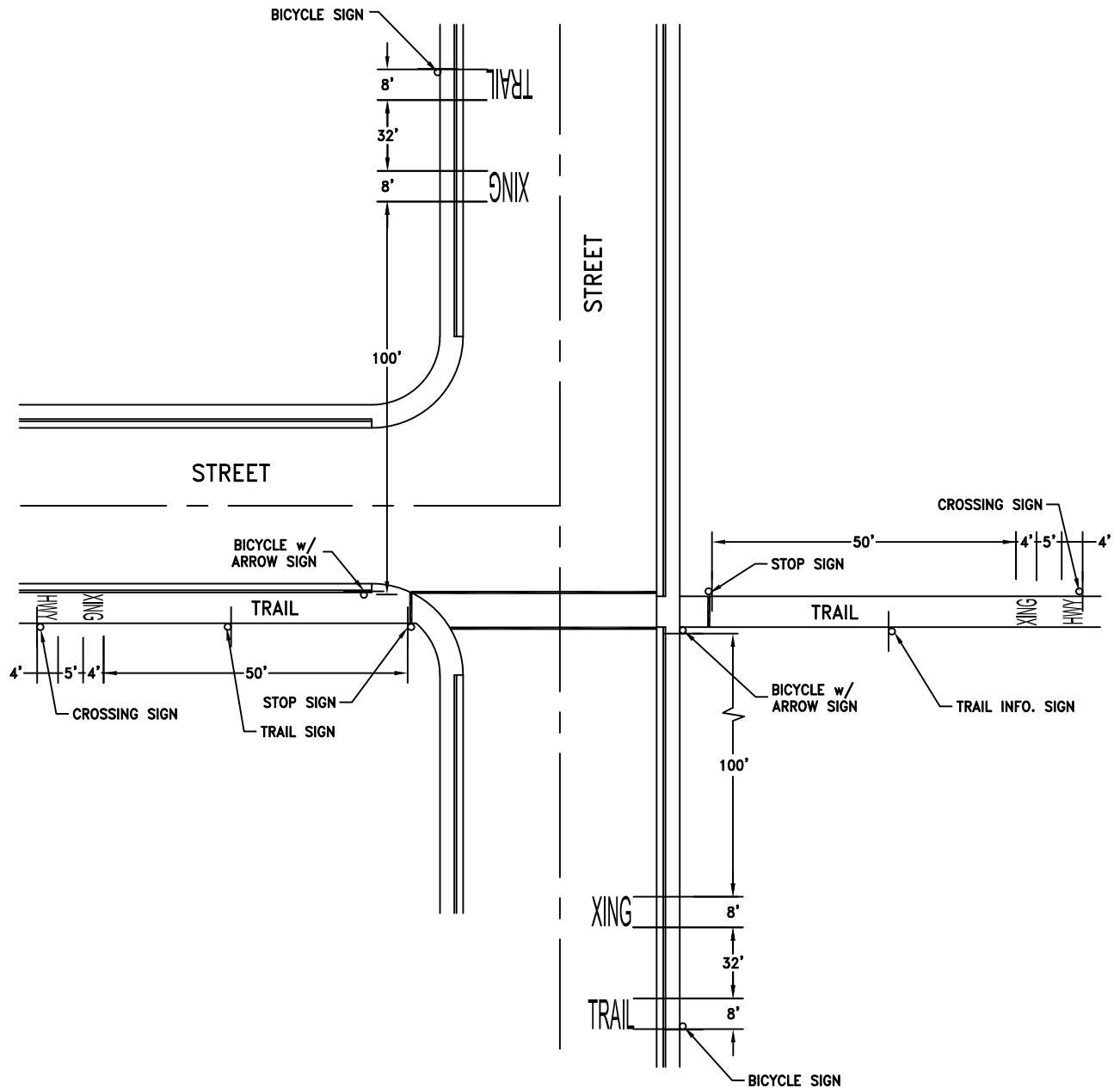
SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R12.3B

SHEET:
2 of 2





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STREET/TRAIL CROSSING DETAIL

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R14.1

SHEET:
1 of 1



NOTES:

1. ALL SIGN FACE MATERIALS, COLORS, LETTERS, INSTALLATION, ETC. SHALL CONFORM TO CITY ENGINEERING STANDARD DRAWING R8.0B



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TRAIL SIGN FACE DETAIL

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R14.2

SHEET:
1 of 1



PER DETAIL R8.0
(TYP.)



CURB & GUTTER

[30°]
{45°}
{60°}
90°

4" WIDE WHITE COLOR
STRIPE (TYP.)

[34']
{27'}
{24'}
18'

9'0"
(TYP.)

MINIMUM
STREET
WIDTH

TRAFFIC FLOW

MINIMUM STREET WIDTH (FACE OF CURB TO FACE OF CURB)

TWO-WAY STREETS: 67' WITH ANGLE PARKING ON BOTH SIDES OF STREET
58' WITH ANGLE PARKING ON ONE SIDE & PARALLEL PARKING ON
OPPOSITE SIDE.

ONE-WAY STREETS: 45' WITH ANGLE PARKING ON ONE SIDE & PARALLEL PARKING ON
OPPOSITE SIDE.
36' WITH ANGLE PARKING ON ONE SIDE & NO PARKING ON
OPPOSITE SIDE.

CURB & GUTTER

NOTES:

1. SEE ANGLE PARKING ORDINANCE
FOR OTHER REQUIREMENTS FOR
ANGLE PARKING.



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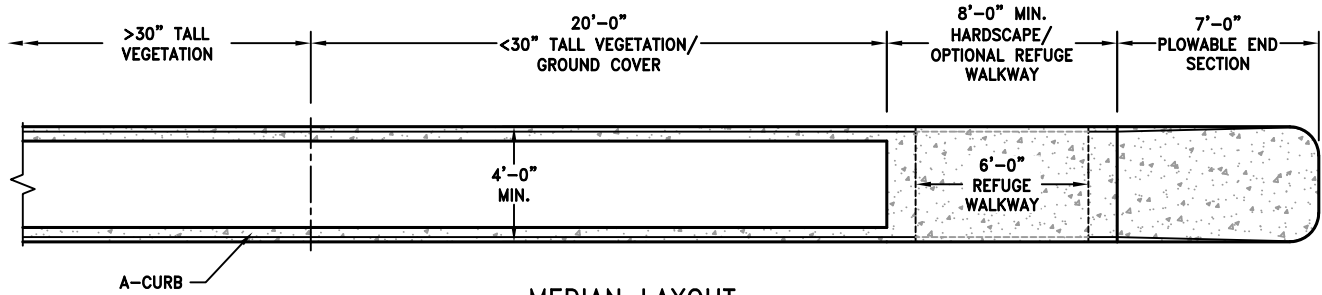
ANGLE PARKING
STALL PAVEMENT
MARKING DETAIL

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

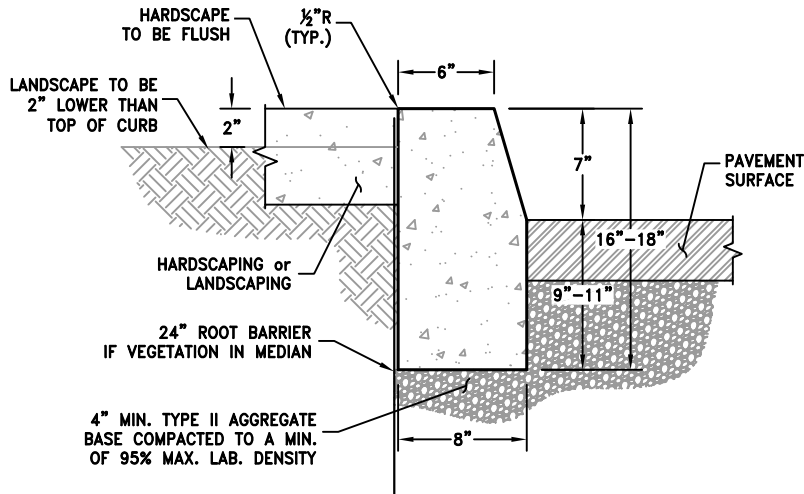
R15.0

SHEET:
1 of 1



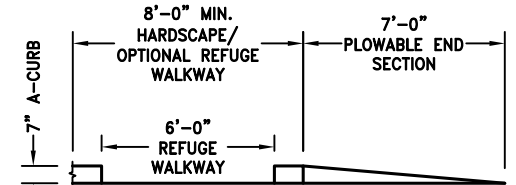
MEDIAN LAYOUT

N.T.S.



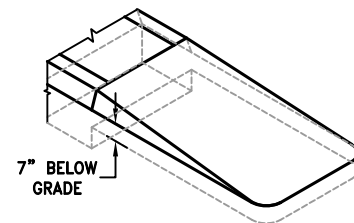
A-CURB DETAIL

N.T.S.



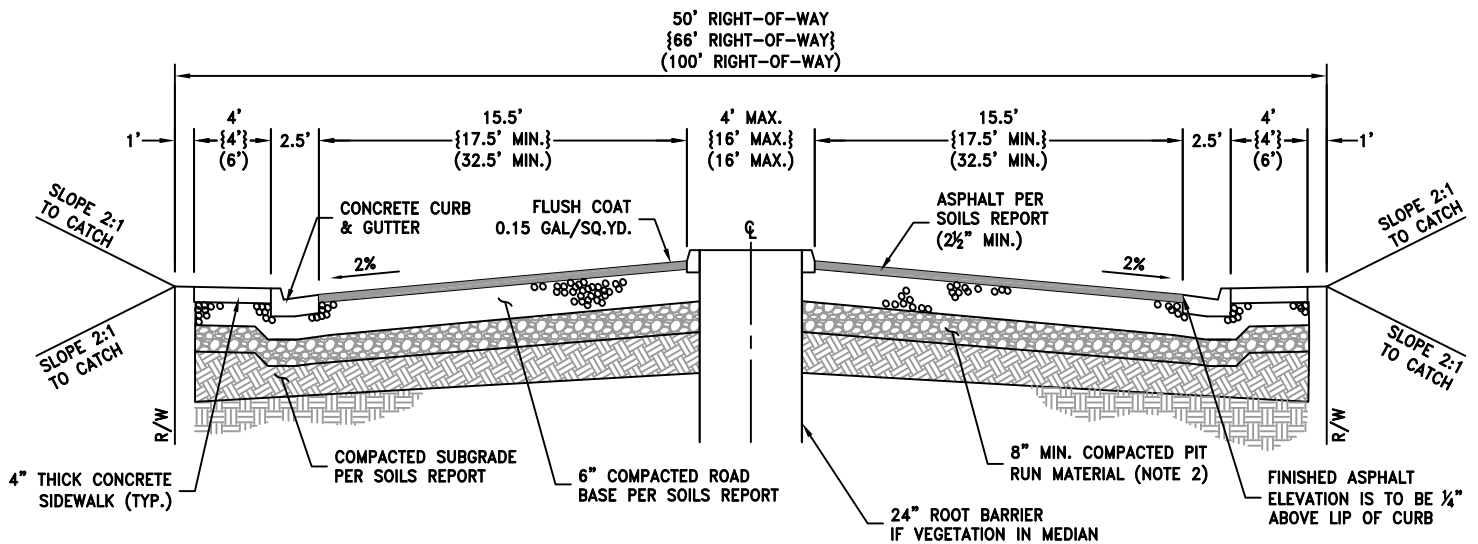
WALKWAY & PLOWABLE END PROFILE

N.T.S.



PLOWABLE END DETAIL

N.T.S.



TYPICAL MEDIAN ROAD SECTION

50' RIGHT-OF-WAY
 {66' RIGHT-OF-WAY}
 (100' RIGHT-OF-WAY)

NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.
3. MEDIAN VEGETATION PER ISLAND OWNER.
4. VEGETATION FOR MEDIAN LANDSCAPING TO FOLLOW APPROVED ENOCH CITY VEGETATION ORDINANCE.



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**CENTER LANDSCAPED
 MEDIAN DETAIL**

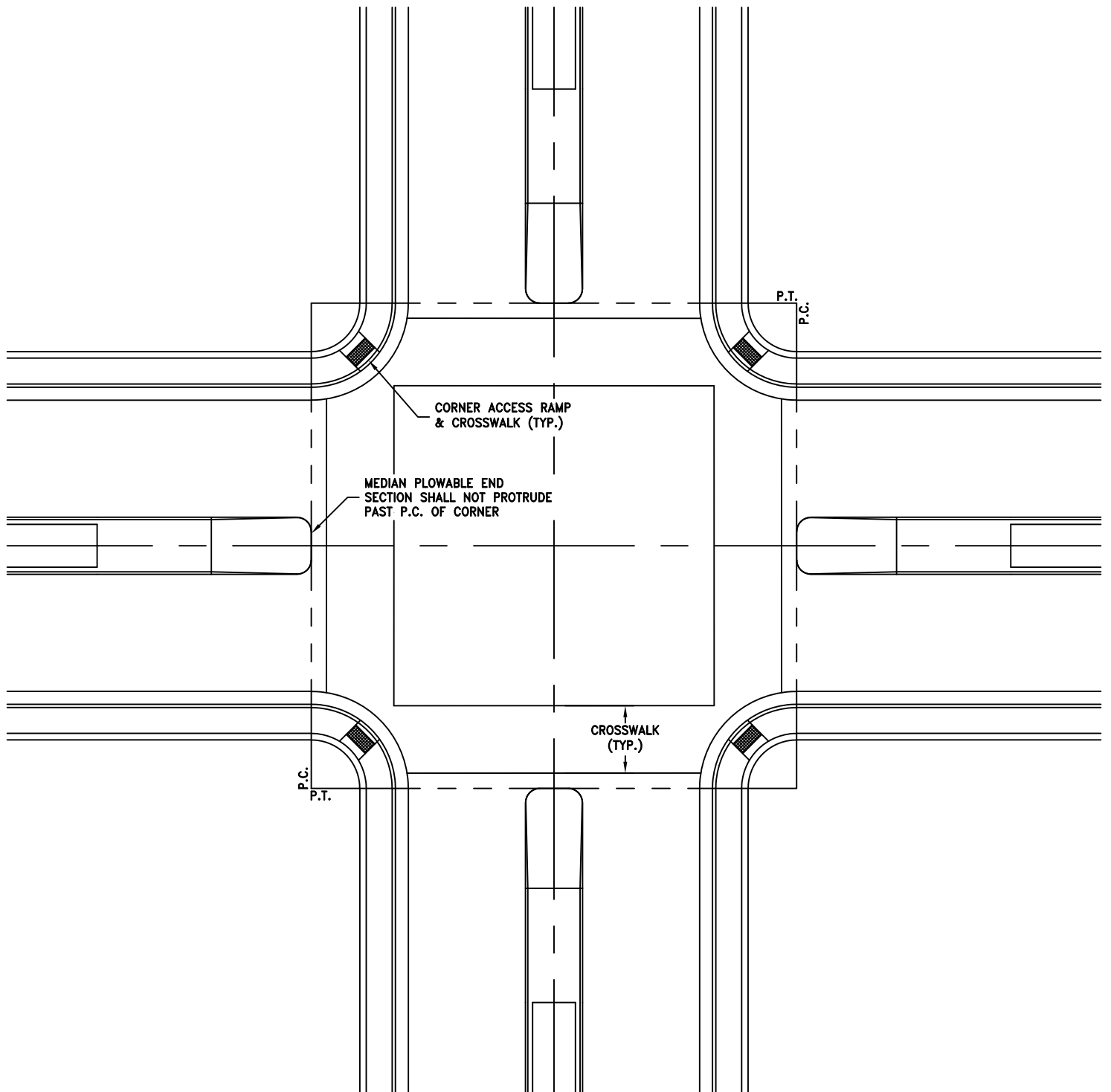
SCALE:
 N.T.S.

DATE:
 DEC. 2022

DETAIL No.:

R16.0

SHEET:
 1 of 1



TYPICAL MEDIAN INTERSECTION DETAIL
N.T.S.

NOTES:

1. REFER TO ENOCH CITY STANDARD DETAIL R16.0 FOR MEDIAN DESIGN REQUIREMENTS.



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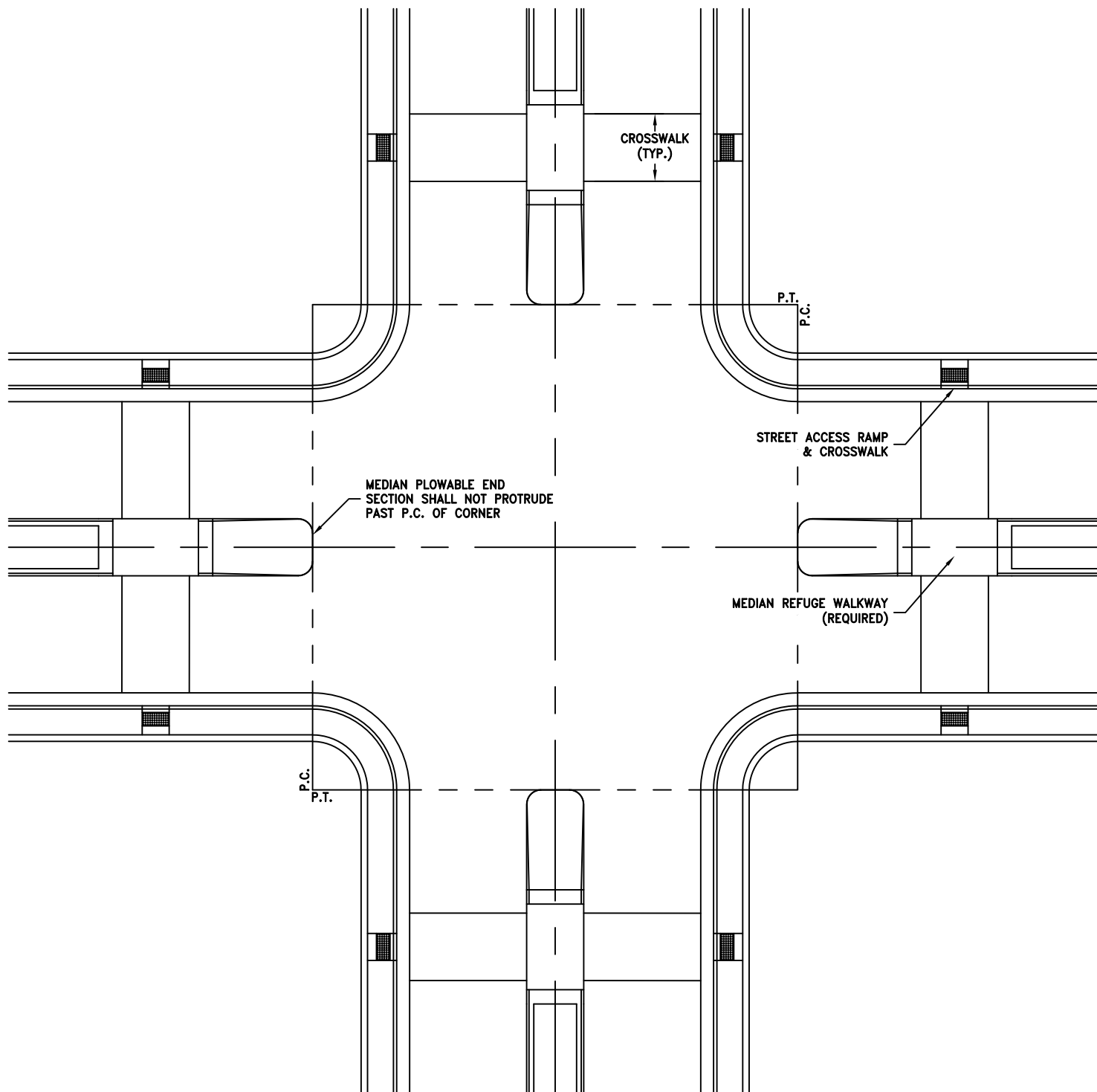
MEDIAN INTERSECTION
w/ CORNER ACCESS
RAMP

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R17.1

SHEET:
1 of 1



TYPICAL MEDIAN INTERSECTION DETAIL
N.T.S.

NOTES:

1. REFER TO ENOCH CITY STANDARD DETAIL R16.0 FOR MEDIAN DESIGN REQUIREMENTS.



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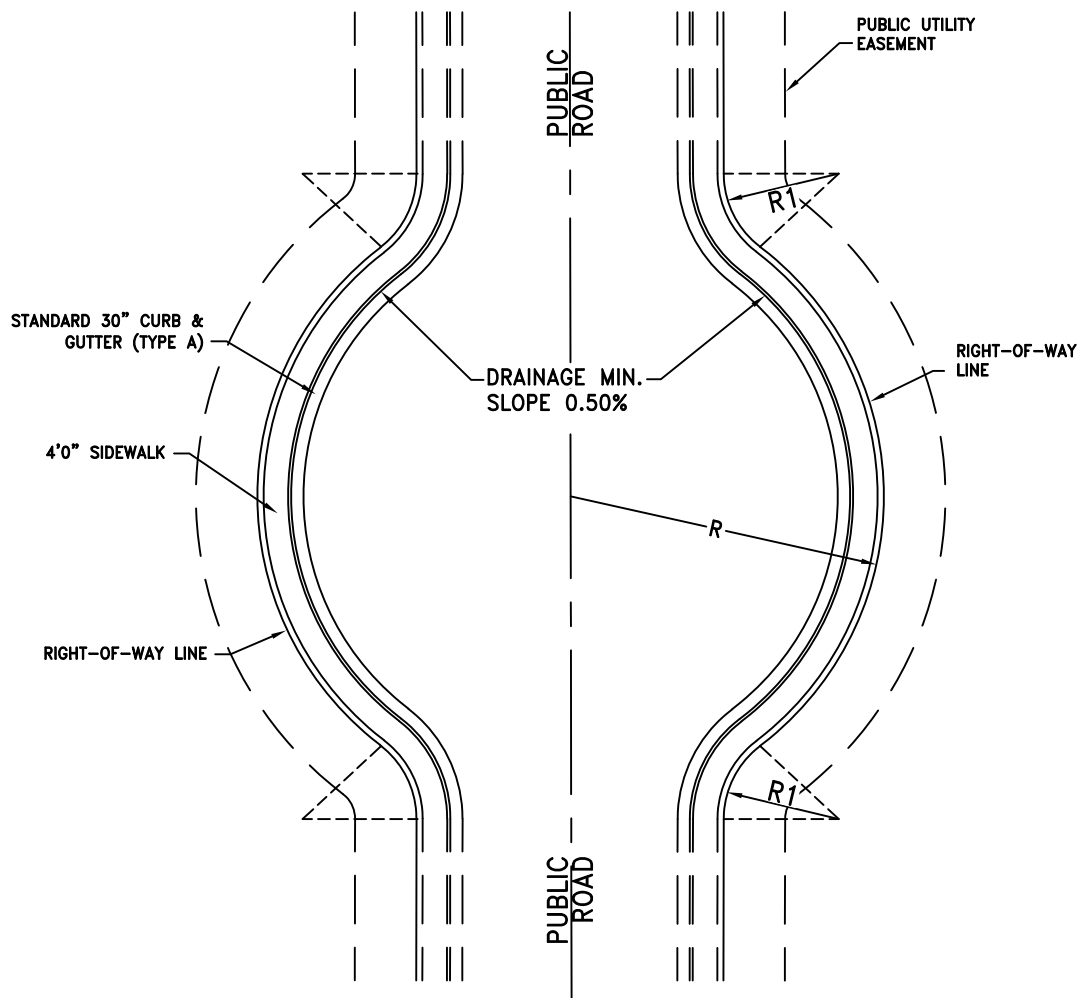
**MEDIAN INTERSECTION
w/ STREET ACCESS
RAMP DETAIL**

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

R17.2

SHEET:
1 of 1



NOTES:

1. ROAD SECTIONS SHALL BE THE SAME ROAD SECTION AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

R/W WIDTH	W	R (MIN.)	R1 (MIN.)
50'	40'	55'	15'
66'	56'	60'	20'
100'	86'	60'	35'



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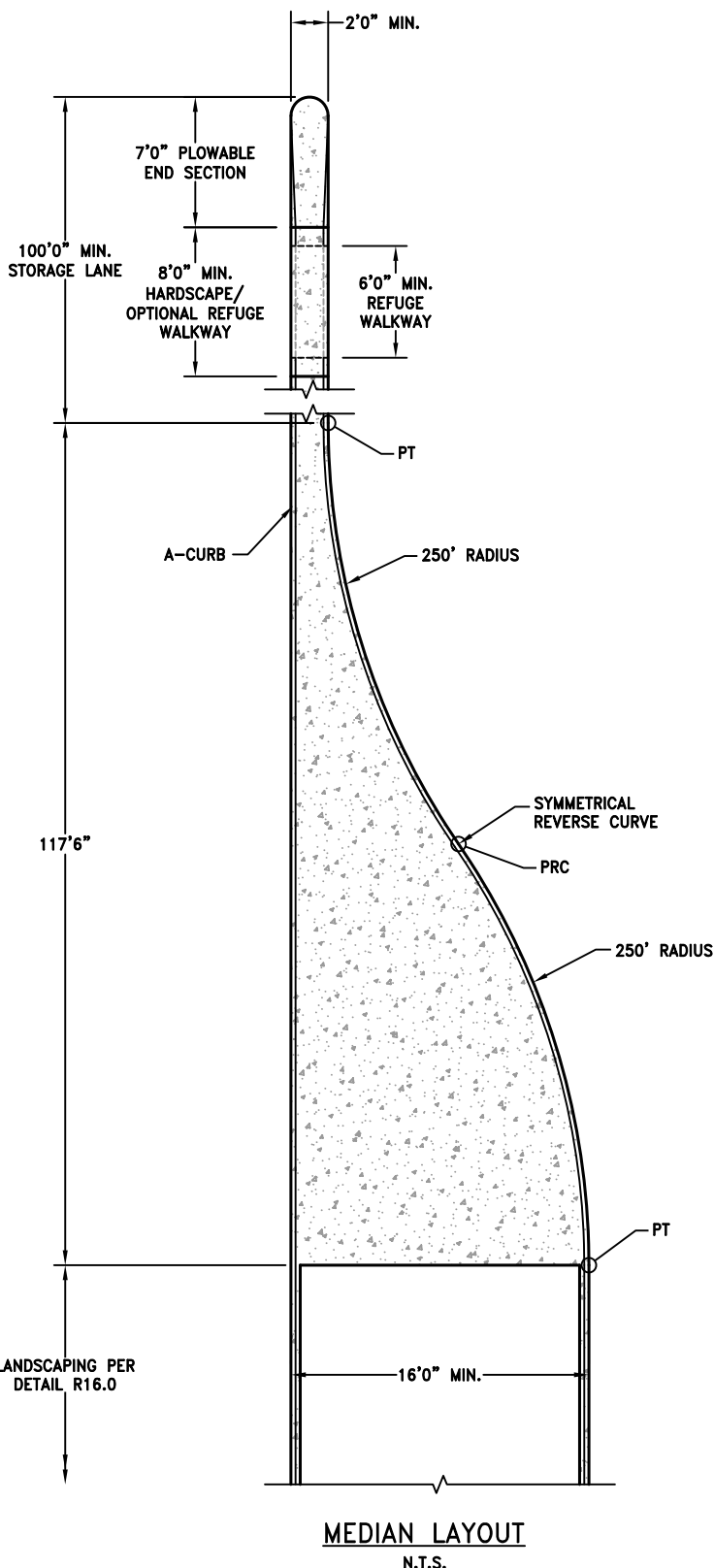
BULB ROAD DETAIL

SCALE:
N.T.S.
DATE:
DEC. 2022

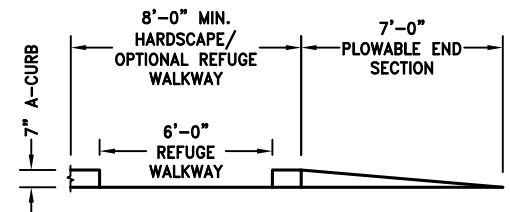
DETAIL No.:

R18.0

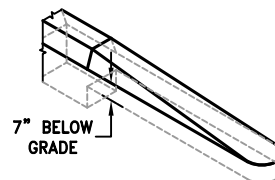
SHEET:
1 of 1



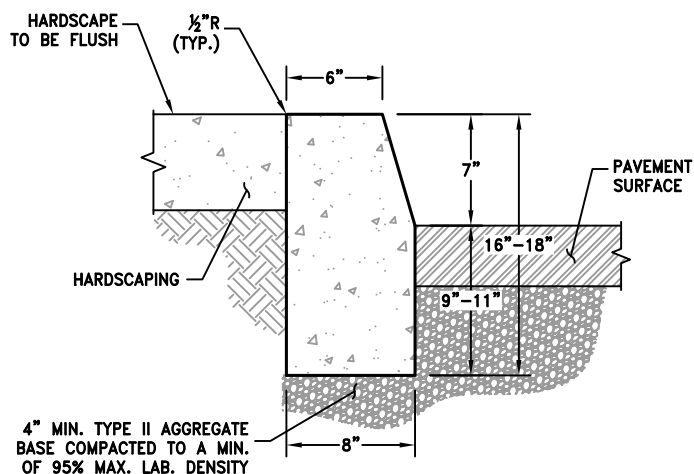
MEDIAN LAYOUT
N.T.S.



WALKWAY & PLOWABLE END PROFILE
N.T.S.



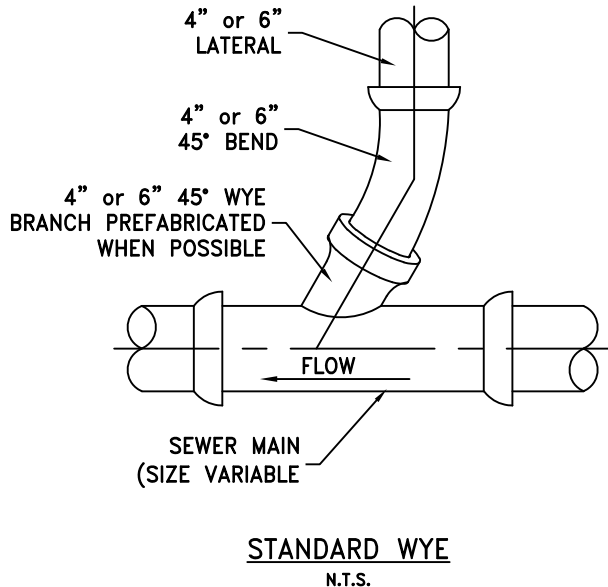
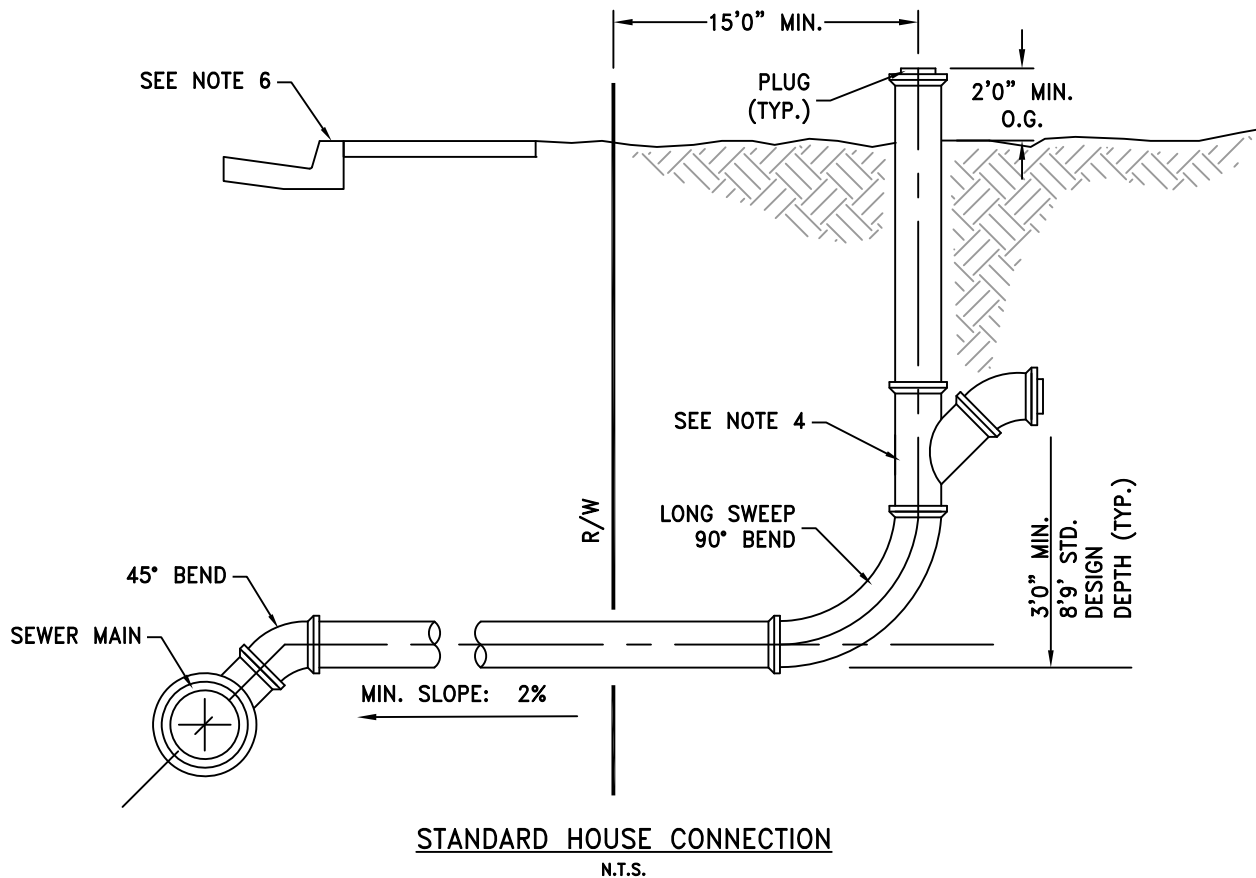
PLOWABLE END DETAIL
N.T.S.



A-CURB DETAIL
N.T.S.

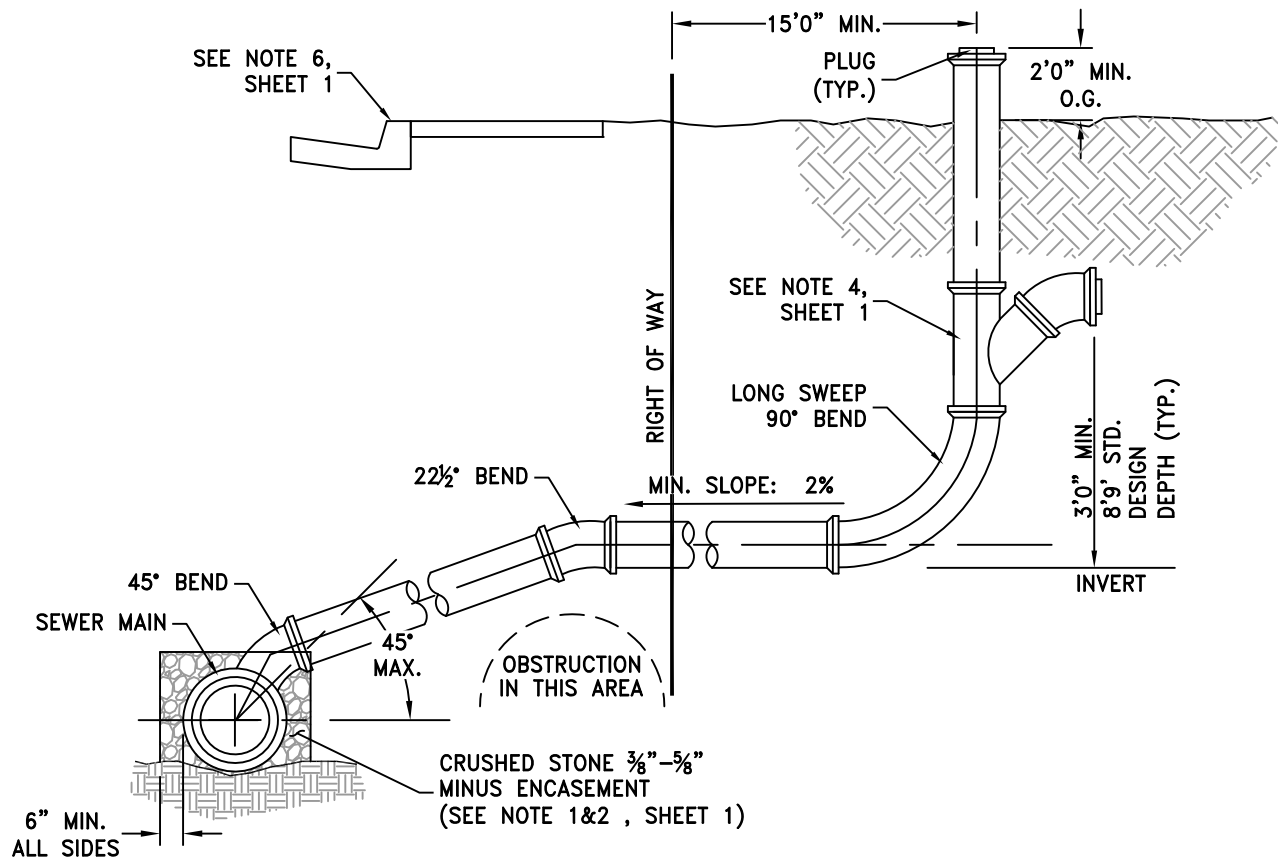
NOTES:

1. BACK OF SIDEWALK TO BE BACKFILLED TO TOP OF CONCRETE.
2. PIT RUN MATERIAL CAN BE ELIMINATED IF NATIVE MATERIAL MEETS OR EXCEEDS PIT RUN MATERIAL STANDARD GRADATION.
3. MEDIAN VEGETATION PER ISLAND OWNER.
4. VEGETATION FOR MEDIAN LANDSCAPING TO FOLLOW APPROVED ENOCH CITY VEGETATION ORDINANCE.
5. REQUIRED ON ALL MAJOR COLLECTOR ROADS WITH MEDIANS.



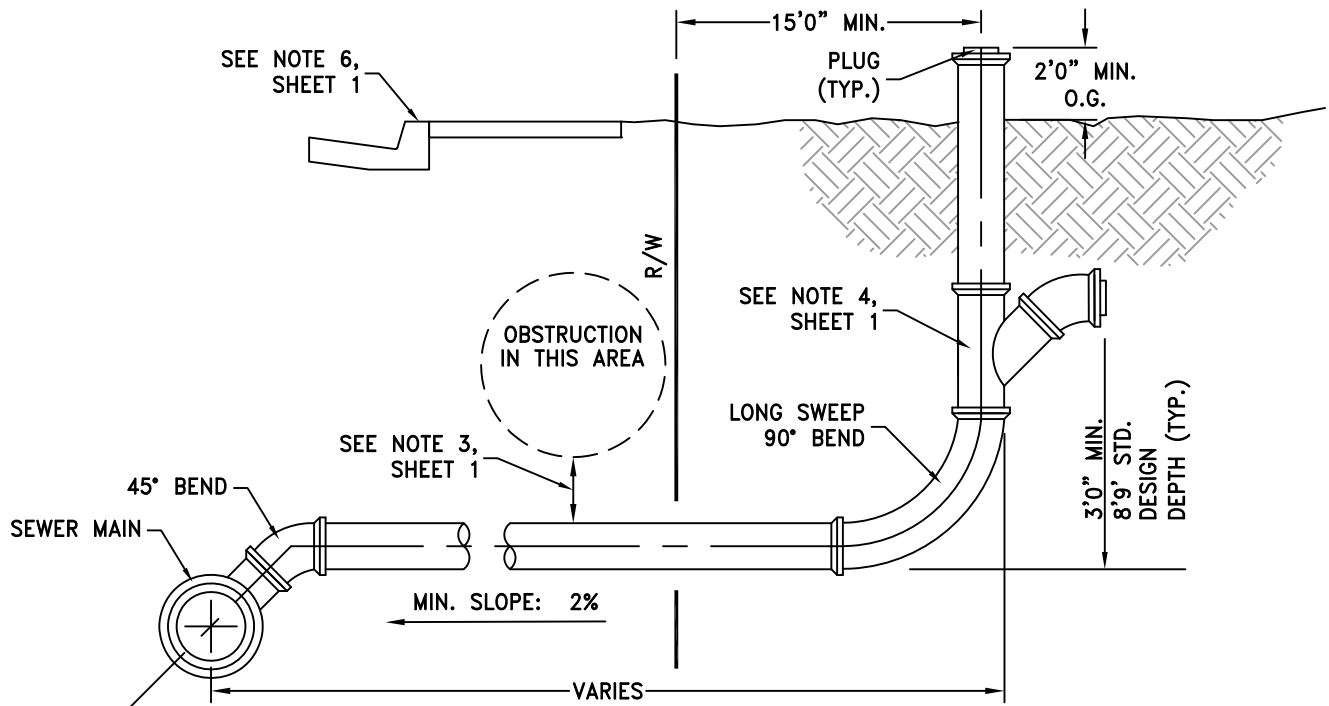
NOTES:

1. ONLY APPROVED INSERTABLE TEES w/ RUBBER GROMMET SEAL or PVC SADDLE WYES GLUED & STRAPPED TO EXISTING PVC MAINS ALLOWED. INSERTABLE TEES SHALL NOT BE USED IN PIPE LESS THAN 12"Ø. SADDLE WYES CONNECTING TO VITRIFIED CLAY SEWER PIPE MAIN MUST BE ENCASED IN CRUSHED STONE AS SHOWN.
2. ALL SEWER LATERALS TO BE ABS or PVC 4" or 6"Ø MATERIAL SDR-35.
3. WHERE CLEARANCE BETWEEN BOTTOM OF OBSTRUCTION AND TOP OF LATERAL IS LESS THAN 12", ENCASE LATERAL IN CRUSHED STONE.
4. 4" or 6" PVC WYE INSTALLED BY BUILDING PLUMBER AT REQUIRED ELEVATIONS.
5. SEWER LATERALS SHALL NORMALLY BE PLACED 10'0" INSIDE THE SIDE LOT LINE ON THE SIDE WHERE THE SEWER MAIN IS THE LOWEST. ON TWIN HOME LOTS SEWER LATERAL SHALL BE PLACED 1'0" ON EACH SIDE OF THE LINE DIVIDING THE HOMES.
6. 4" HIGH LETTER "S" ETCHED IN CONCRETE CURB ABOVE SEWER LATERAL.
7. NO SEWER LATERALS SHALL BE CONNECTED DIRECTLY TO SEWER MANHOLES.
8. WHEN A NEW SEWER LATERAL REPLACES AN EXISTING SEWER LATERAL AT A DIFFERENT LOCATION ON THE SEWER MAIN, THE EXISTING SEWER LATERAL SHALL BE CAPPED AT THE SEWER MAIN.
9. SEWER LATERALS IN COMMERCIAL PARKING LOTS REQUIRE A COLLAR AROUND THE CLEAN-OUT CAP SIMILAR TO WATER VALVE BOX COLLARS PER DETAIL W1.1



HOUSE CONNECTION OVER OBSTRUCTION

(UPON APPROVAL ONLY)
N.T.S.



HOUSE CONNECTION UNDER OBSTRUCTION

(UPON APPROVAL ONLY)
N.T.S.

4'0" DIAMETER or SQUARE CONCRETE COLLAR
w/ #4 BAR AND REINFORCEMENT FIBERS. 8"
THICK MIN. w/ GRADE RING ENCASEMENT
(SEE NOTES 1,2&7)

D&L MANHOLE RING AND COVER NO. A-1180
(RIBLESS) CROSS HATCH DESIGN (O.A.E.) w/ "SEWER"
LETTERING. NO LOW PROFILE LIDS WILL BE ALLOWED.

PRECAST CONCRETE GRADE RINGS or 30" I.D.
CORRUGATED POLYETHYLENE PIPE ENCASED IN
CONCRETE COLLAR (12" MAX. HEIGHT)

PRECAST ECCENTRIC CONE w/ 30" OPENING or
REGULAR MANHOLE SECTION w/ TRAFFIC LID.

SEAL ALL JOINTS w/ "RAM-NEK" or NON-SHRINK
GROUT or ASPHALTIC SEALER AND GASKET
INCLUDING JOINTS BETWEEN GRADE ADJUSTING
RINGS AND JOINT BETWEEN MANHOLE RING AND
CONCRETE ON MANHOLES WITH NO CONCRETE
COLLAR. SEALER TO BE PLACED ON INSIDE OF
MANHOLE JOINT AND VISIBLE FROM INSIDE MANHOLE.

M.A. MANHOLE STEP
(M.A. INDUSTRIES INC.)
or APPROVED EQUAL

PRECAST OR CAST-IN-PLACE
CONCRETE BASE & FOOTING SLOPE
INSIDE TO PIPE ALL AROUND

FORM CHANNEL IN CONCRETE BASE
OPENING MUST BE AT LEAST AS WIDE
AS THE PIPE INSIDE DIAMETER.

BASE TO REST ON UNDISTURBED EARTH or
12" MIN. OF 1" MAX. GRADED ROCK

SECTION
N.T.S.

TYPICAL MANHOLE FOR SANITARY SEWER N.T.S.

NOTES:

1. MANHOLES IN ROADWAYS REQUIRE CONCRETE COLLAR. TOP OF MANHOLE CONE IN UNIMPROVED AREAS SHALL BE SET 6" TO 12" ABOVE FINISH GRADE WITH NO GRADE RINGS. (NO CONCRETE COLLAR REQUIRED)
2. MANHOLE LID, RING AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET $\frac{1}{4}$ " BELOW TOP OF ASPHALT.
3. 5'0"Ø MANHOLES REQUIRED FOR ALL SEWER LINES OVER 15"Ø, MANHOLES OVER 12'0" DEEP, or MANHOLES w/ (3) or MORE INCOMING LINES.
4. NO SEWER LATERALS SHALL BE INSTALLED INTO MANHOLES.
5. OUTLET PIPE INVERT TO BE 0.05' (MINIMUM) LOWER THAN INLET PIPES IN ALL MANHOLES.
6. NO WOOD OR PVC SHIMS WILL BE ALLOWED BETWEEN LID RING AND ADJUSTING RINGS OR MANHOLE.
7. IF TRAFFIC LID IS USED, CONCRETE COLLAR CAN BE ELIMINATED IF TRAFFIC LID IS < 6" BELOW FINISHED ROAD GRADE.
8. MANHOLES IN UNIMPROVED AREAS REQUIRE AN ORANGE CARSONITE CRM 66" UTILITY MARKER BE PLACED WITHIN 4'0" OF THE MANHOLE w/ A STICKER INDICATING SEWER MANHOLE.
9. DROP MANHOLE AND ALL OTHER MANHOLES WITH PRESSURE LINE OF ANY SIZE or GRAVITY LINES 15"Ø AND ABOVE SHALL BE CORROSION RESISTANT, ARMOR ROCK (PRECAST), or SPRAYROQ (FIELD APPLIED); 125 MILS. THICK, O.A.E.



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NEW SEWER MANHOLE & EXISTING CONNECTION

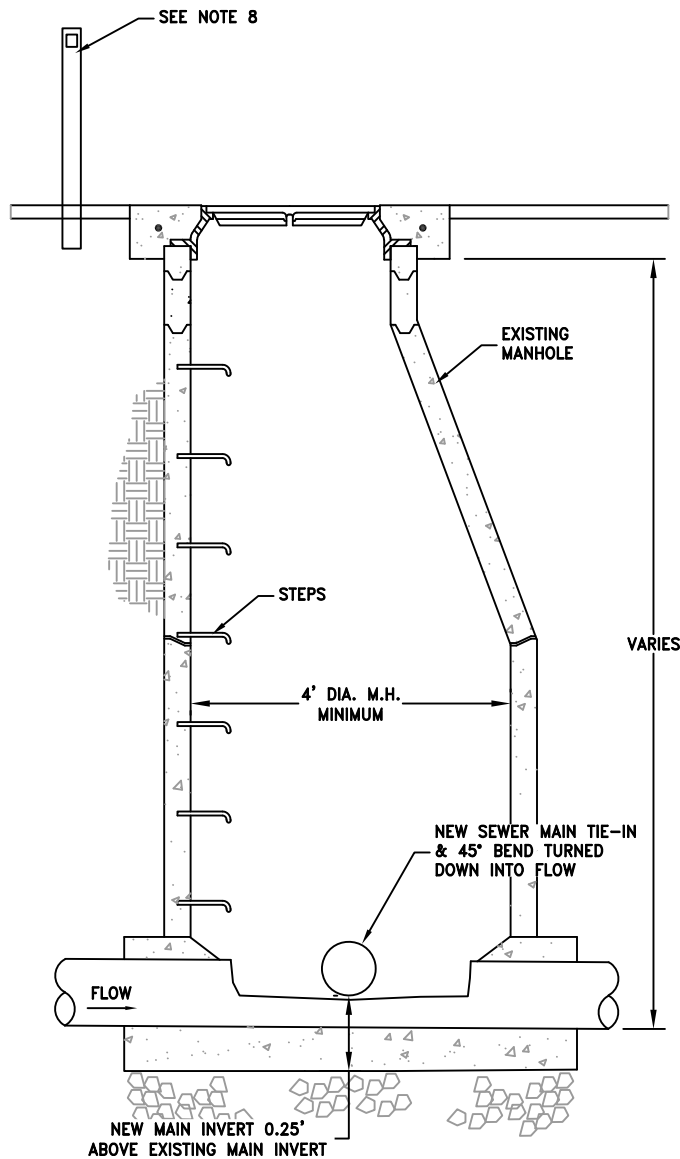
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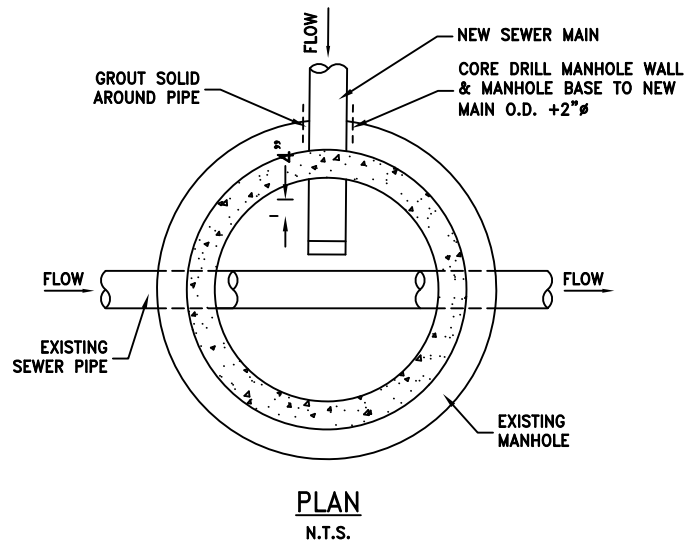
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S2.0A

SHEET:
1 of 2



SECTION
N.T.S.



EXISTING SEWER MANHOLE CONNECTION
N.T.S.

NOTES:

1. MANHOLES IN ROADWAYS REQUIRE CONCRETE COLLAR. TOP OF MANHOLE CONE IN UNIMPROVED AREAS SHALL BE SET 6" TO 12" ABOVE FINISH GRADE WITH NO GRADE RINGS. (NO CONCRETE COLLAR REQUIRED)
2. MANHOLE LID, RING AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET $\frac{1}{4}$ " BELOW TOP OF ASPHALT.
3. 5'0"Ø MANHOLES REQUIRED FOR ALL SEWER LINES OVER 15"Ø, MANHOLES OVER 12'0" DEEP, or MANHOLES w/ (3) or MORE INCOMING LINES.
4. NO SEWER LATERALS SHALL BE INSTALLED INTO MANHOLES.
5. OUTLET PIPE INVERT TO BE 0.05' (MINIMUM) LOWER THAN INLET PIPES IN ALL MANHOLES.
6. NO WOOD OR PVC SHIMS WILL BE ALLOWED BETWEEN LID RING AND ADJUSTING RINGS OR MANHOLE.
7. IF TRAFFIC LID IS USED, CONCRETE COLLAR CAN BE ELIMINATED IF TRAFFIC LID IS < 6" BELOW FINISHED ROAD GRADE.
8. MANHOLES IN UNIMPROVED AREAS REQUIRE AN ORANGE CARSONITE CRM 66" UTILITY MARKER BE PLACED WITHIN 4'0" OF THE MANHOLE w/ A STICKER INDICATING SEWER MANHOLE.
9. DROP MANHOLE AND ALL OTHER MANHOLES WITH PRESSURE LINE OF ANY SIZE or GRAVITY LINES 15"Ø AND ABOVE SHALL BE CORROSION RESISTANT, ARMOR ROCK (PRECAST), or SPRAYROQ (FIELD APPLIED); 125 MILS. THICK, O.A.E.



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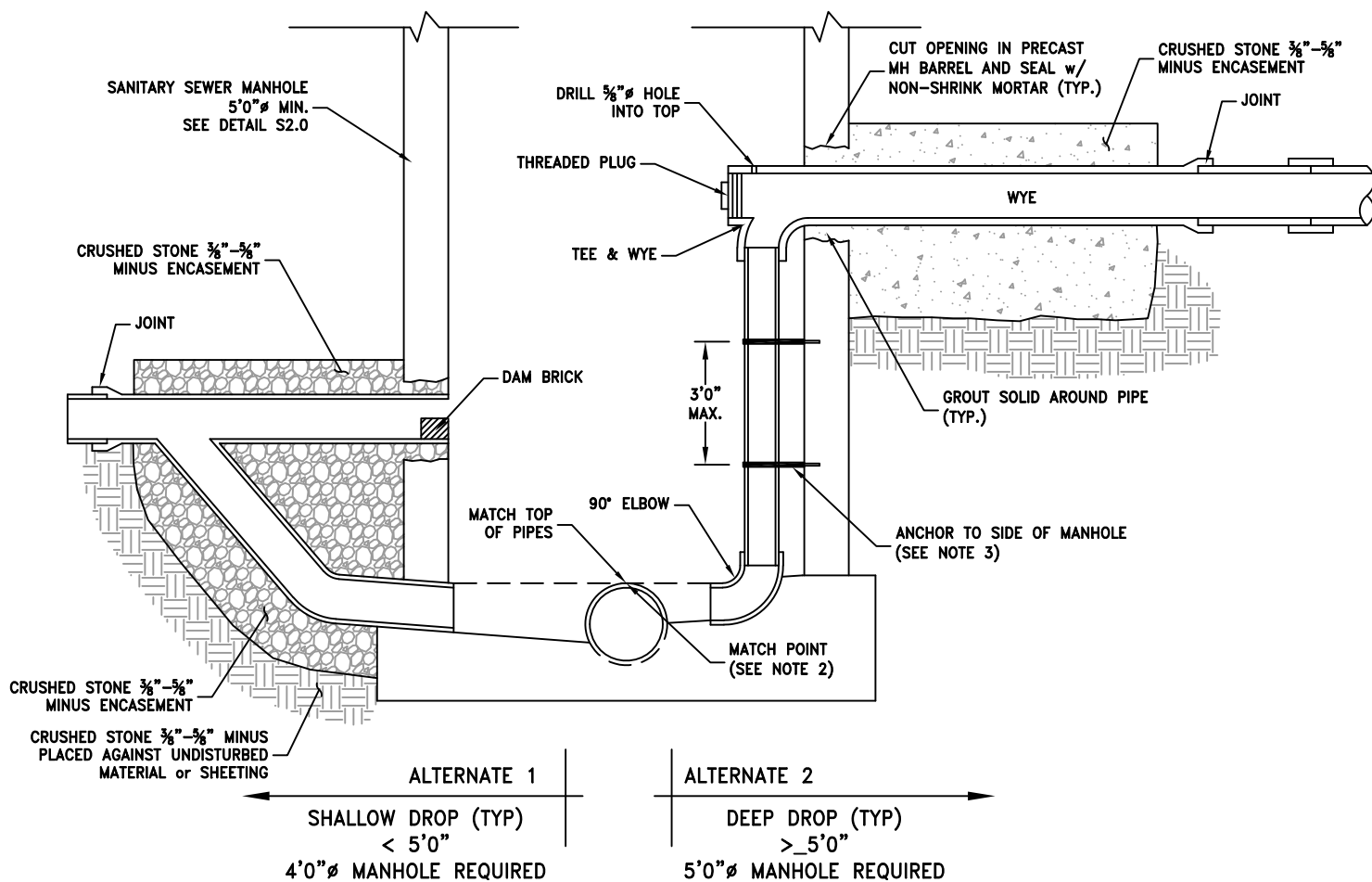
**NEW SEWER MANHOLE
& EXISTING
CONNECTION**

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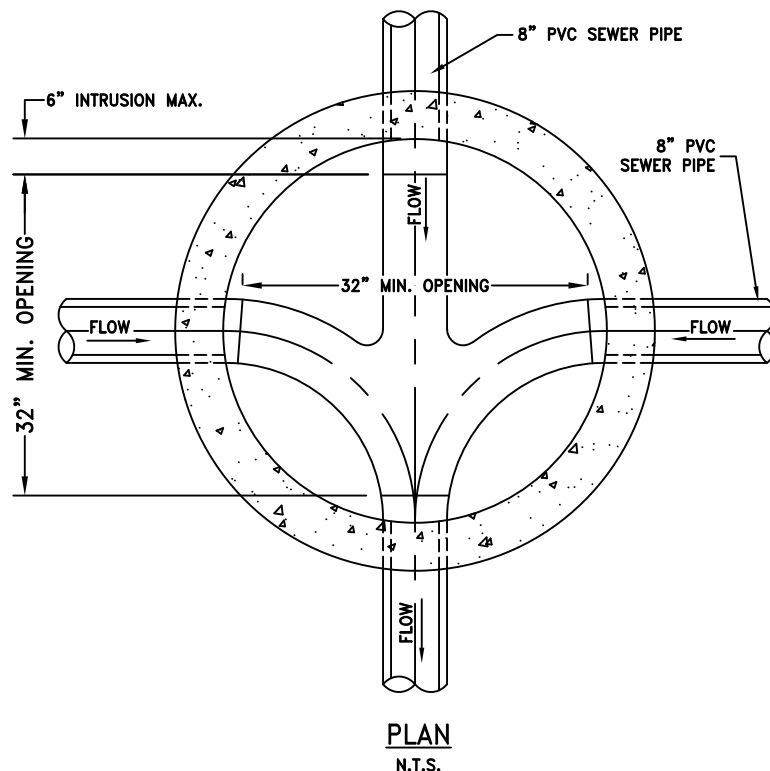
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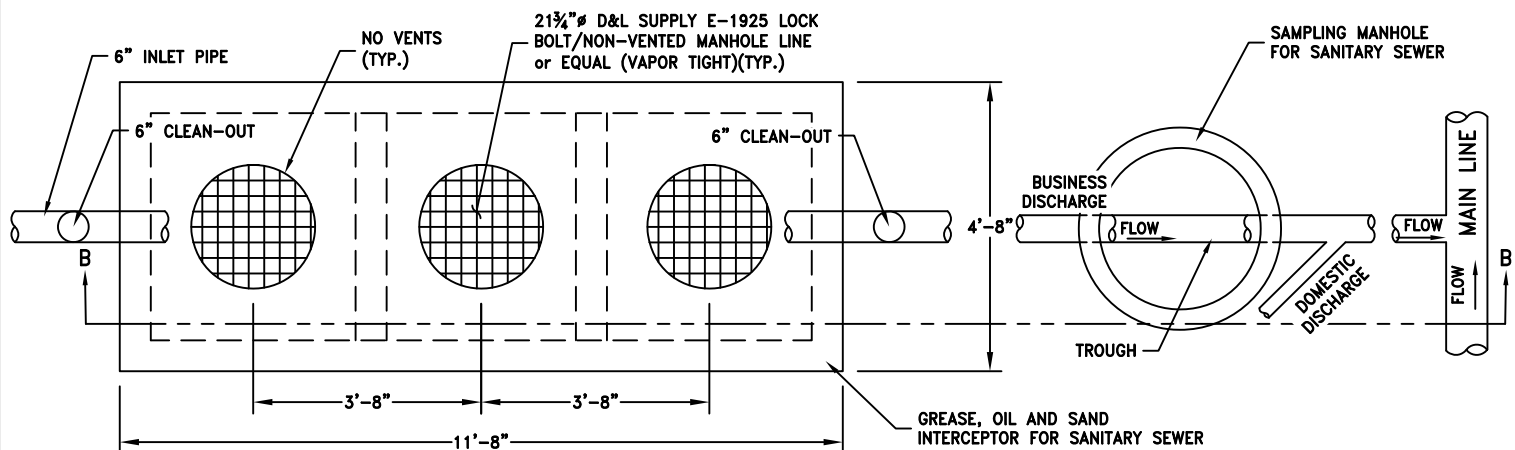
SHEET:
2 of 2



NOTES:

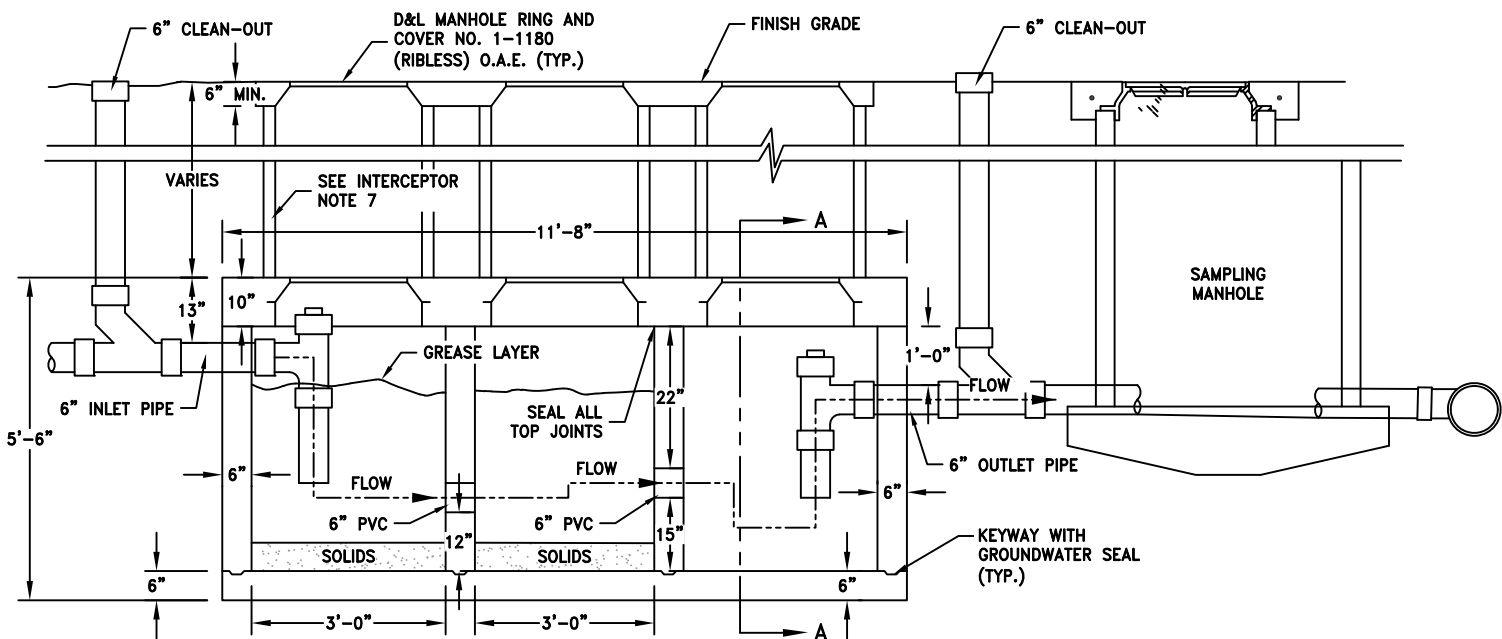
1. PIPE DROPS: ONLY ONE DROP PIPE IS ALLOWED INSIDE THE MANHOLE. SIZE THE DROP PIPE TO BE SAME DIAMETER AS SEWER PIPE DISCHARGING INTO MANHOLE.
2. MATCH POINT: MATCH TOP OF THE PIPES.
3. ANCHOR: IF THE DROP IS MORE THAN 18", ANCHOR THE RISER TO THE WALL EVERY 36". USE CONCRETE ANCHORS 1 1/2" THREADED RODS, A/WI PIPE HANGERS w/ 1/2" COUPLING & POLY PROYLENE COLLAR. ALL STEEL SHALL BE 304 STAINLESS.
4. ALL MANHOLES WITH SEWER LINES 15" or GREATER NEED TO HAVE CONCRETE ACID RESISTANT COATING ARMOR ROQ (PRECAST) or SPRAYROQ (FIELD APPLIED), 125 MILS. THICK, O.A.E.





TOP VIEW

N.T.S.



SECTION B-B

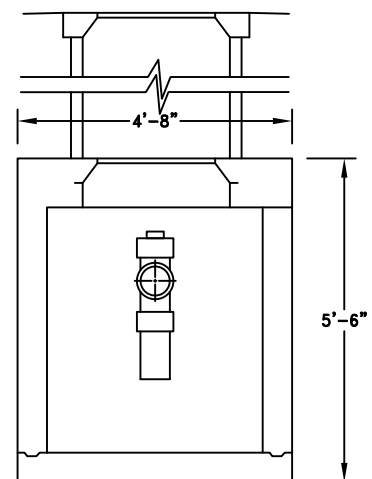
N.T.S.

INTERCEPTOR NOTES:

1. MATERIAL SPEC'S:
 - 1.A. CONCRETE PORTLAND CEMENT TYPE II. MINIMUM COMPRESSIVE STRENGTH=4000 PSI AT 28 DAYS.
 - 1.B. REINFORCING BAR INTERMEDIATE GRADE 40 ASTM A615.
 - 1.C. REINFORCING WELDED WIRE MESH ASTM A185.
2. UNIT COATED OUTSIDE WITH AN APPROVED PROTECTIVE COATING.
3. ALL DIMENSIONS ± NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. PRECAST UNIT TO BE PLACED ON NATURAL SOIL or APPROVED COMPACTED FILL.
5. STANDARD GROUND WATER SEAL-BUTYL ROPE MASTIC or CEMENT MORTAR.
6. INTERCEPTOR MANHOLE COVERS TO BE SET FLUSH WITH ASPHALT or CONCRETE PARKING LOT GRADES or 6" MIN. ABOVE GRADE IN UNFINISHED or LANDSCAPE AREAS.
7. RAISE COVERS TO FINISHED GRADE WITH 30" I.D. CONCRETE or HDPE PIPE (TYP.)

SAMPLING MANHOLE NOTES:

1. MANHOLES IN ROADWAYS or PARKING LOTS REQUIRE CONCRETE COLLAR. MANHOLES IN UNIMPROVED AREAS SHALL BE SET 6" ABOVE. FINISH GRADE. (NO CONC. COLLAR REQUIRED)
2. MANHOLE LID, RING AND CONCRETE COLLAR TO BE SET 1/4" BELOW TOP OF ASPHALT.



SECTION A-A

N.T.S.



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**GREASE, OIL & SAND
INTERCEPTOR &
SAMPLING MANHOLE
FOR SANITARY SEWER**

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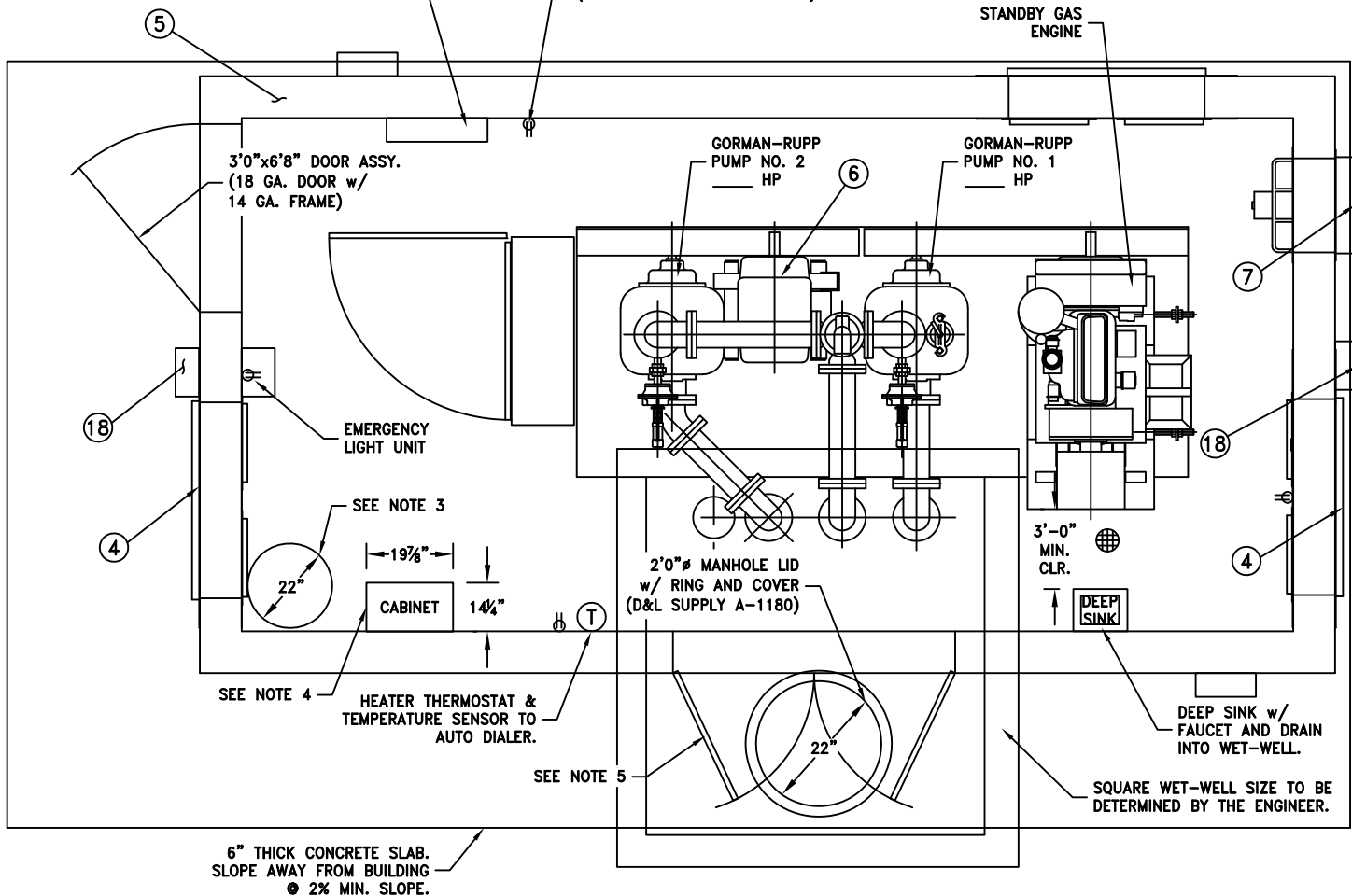
DETAIL No.:

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SHEET:
1 of 1

GAS HEATER w/ ADJUSTABLE THERMOSTAT A HIGH CAPACITY STATION HEATER SHALL BE PROVIDED FOR THE PROTECTION OF THE PUMPING EQUIPMENT.

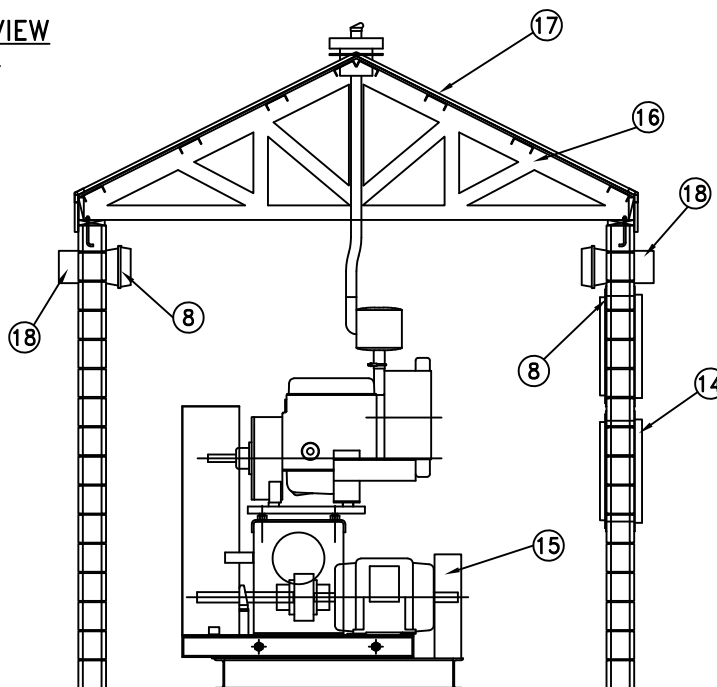
WALL MOUNTED DUPLEX GFI UTILITY RECEPTACLE PROVIDING 120 VOLT AC POWER (4 EACH, TYP.) (ONE ON EACH INTERIOR WALL)



PLAN VIEW
N.T.S.

NOTES:

1. EXTERNAL SECURITY LIGHTS (4 EACH, TYP.) 120V AC PHOTOELECTRIC HIGH PRESSURE SODIUM LIGHT, MOUNTED AND WIRED TO EXTERIOR WALL (ONE ON EACH EXTERIOR WALL.)
2. 4" FLOOR DRAIN. DRAIN INTO WET-WELL. SLOPE CONCRETE FLOOR INSIDE THE BUILDING TO THE FLOOR DRAIN.
3. PROVIDE TRASH CAN (RUBBERMAID 32 GAL. BRUTE ROUND BASE w/ BRUTE DOME TOP - GRAY COLOR)
4. WALL-MOUNTED STEEL STORAGE CABINET (DURHAM MODEL 056) 2 ADJUSTABLE SHELVES. RUST AND ACID-RESISTANT BAKED ENAMEL FINISH.
5. DOUBLE-WIDE ENTRANCE DOOR 6'0"x6'8" DOOR ASSEMBLY WITHOUT A CENTER SILL. (18 GA. DOOR W/ 14 GA. FRAME) w/ PUSH PULL HARDWARE, DEAD BOLT & 3 HINGES.
6. SEE S5.0C; SHEET 3 FOR CONSTRUCTION NOTES.
7. SEE S5.0D; SHEET 4 FOR GENERAL NOTES.



GAS ENGINE SIDE ELEVATION
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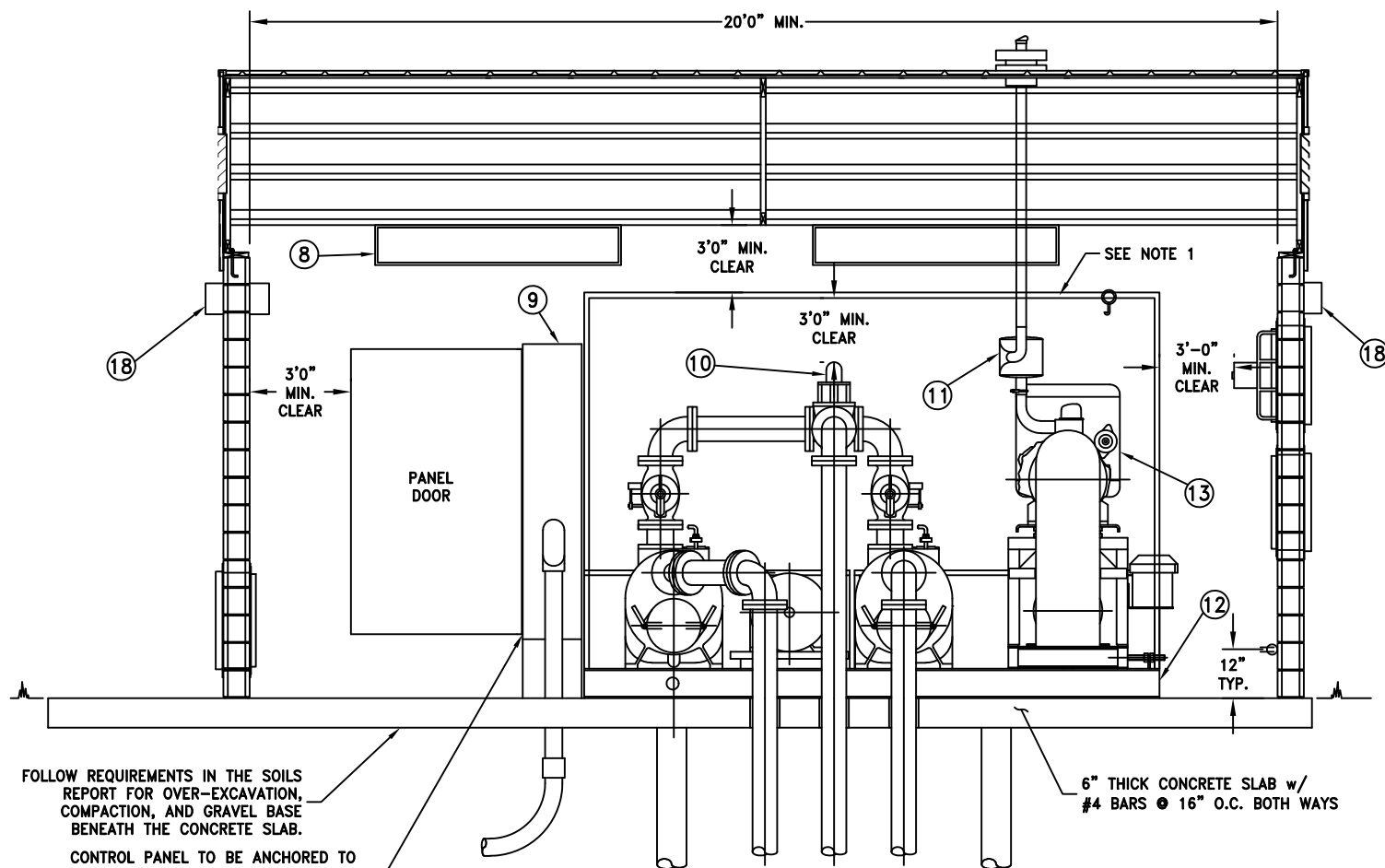
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SEWER LIFT STATION**

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PUMP FRONT ELEVATION

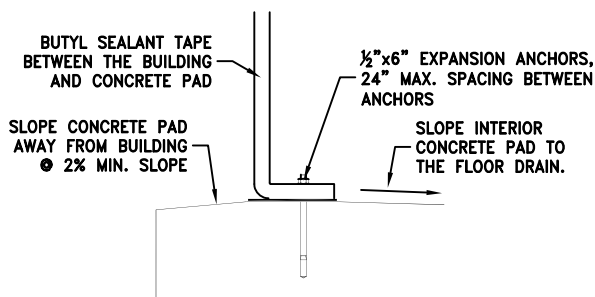
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NOTES:

1. LIFT BEAM FRAME w/ 2 TON TROLLEY HOIST MOUNTED TO THE SKIDS. LIFT BEAM SIZE TO BE DETERMINED BY THE ENGINEER. LIFT BEAM MUST BE TALL ENOUGH TO BE ABLE TO LIFT THE PUMPS UP AND OVER THE OTHER EQUIPMENT. LIFT BEAM FRAME TO BE SQUARE STRUCTURAL TUBING WITH MINIMUM $\frac{1}{2}$ " WALL THICKNESS (ASTM A500, GRADE B, FY = 46 KSI)
2. SEE S5.0D; SHEET 4 FOR GENERAL NOTES.

CONSTRUCTION NOTES

ITEM	DESCRIPTION	MATERIAL & SIZE
①	PUMP	CAST IRON T4A-B
②	DISCHARGE CHECK VALVE	CAST IRON
③	AIR RELEASE VALVE	CAST IRON
④	INTAKE VENT ASSY	ALUMINUM (4 SHUTTERS)
⑤	STATION ENCLOSURE	MASONRY BLOCK
⑥	MOTOR	CAST IRON
⑦	EXHAUST FAN ASSY	1600 CFM
⑧	FLUORESCENT LIGHT FIXTURE	80 WATT FIXTURE
⑨	CONTROL PANEL	STEEL
⑩	DISCHARGE PLUG VALVE	CAST IRON 3-WAY
⑪	EXHAUST SILENCER	STAINLESS STEEL
⑫	PUMP & MOTOR BASE ASSY	STEEL
⑬	ENGINE (NISSAN)	LIQUID COOLED
⑭	EXHAUST VENT ASSY	ALUMINUM (4 SHUTTERS)
⑮	BELT GUARD ASSY	STEEL
⑯	ROOF TRUSSES	STEEL
⑰	METAL INSULATED ROOF w/ FLASHING	STEEL
⑱	HPS LIGHT FIXTURE	175 WATT



SECTION A-A

N.T.S.



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SELF PRIMING SEWER LIFT STATION

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S5.0C

SHEET:
3 of 4

GENERAL NOTES:

1. NEED 3 PHASE POWER. 480-VOLT w/ CONNECTION FOR AUXILIARY GENERATOR.
2. BETWEEN PUMP SKIDS AND BUILDING FLOOR, VIBRATION ISOLATION PADS SHALL BE INSTALLED. SKIDS SHALL BE ANCHORED TO CONCRETE FLOOR AND VIBRATION ISOLATION PADS SHALL BE INSTALLED IN SMALL ENOUGH PIECES TO FIT UNDER RAILS.
3. THE PUMP STATION PHONE SYSTEM SHALL BE TIED TO THE ENOCH CITY SCADA SYSTEM USING AN AUTO-DIALER PER ENOCH CITY REQUIREMENTS. PROVIDE SUBMITTALS ON ALL AUTO-DIALER EQUIPMENT TO BE USED. THE SCADA SYSTEM MUST INCLUDE AN INTRUSION ALARM ON THE WET-WELL MANHOLE LID AND ON THE DOORS INTO THE LIFT STATION BUILDING, BUILDING TEMPERATURE SENSOR, HIGH LEVEL ALARM, MOTOR RUN, MOTOR FAIL ALARM, AND WET WELL LEVEL.
4. ALL CONDUITS AND UTILITIES COMING INTO THE BUILDING MUST COME IN THROUGH THE CONCRETE FLOOR SLAB. NO CONDUITS OR UTILITIES MAY ENTER THE BUILDING THROUGH THE WALLS. A SPARE 2" CONDUIT MUST BE STUBBED INTO THE BUILDING THROUGH THE FLOOR SLAB FOR FUTURE USE.
5. THE WET-WELL MUST BE LOCATED FACING THE STREET OR ACCESS ROAD SO THAT IT CAN BE EASILY ACCESSED BY THE CITY'S SEWER CLEANING TRUCK.
6. THE SOIL UNDERNEATH ALL CONCRETE SLABS MUST BE OVER EXCAVATED AND RE-COMPACTED PER THE RECOMMENDATIONS GIVEN IN THE SOILS REPORT.
7. THE CONCRETE SLAB MUST BE DOWELED INTO THE WET-WELL WITH #4 REBAR @ 16" O.C. TO PREVENT DIFFERENTIAL SETTLEMENT OF THE SLABS.
8. CULINARY WATER SERVICE MUST BE PROVIDED TO THE LIFT STATION SITE. INSTALL A FROST PROOF YARD HYDRANT ON THE SITE WITH 3 FEET BURY DEPTH. (SIMMONS BRAND) RUN CULINARY WATER INTO THE LIFT STATION BUILDING TO THE DEEP SINK. REFER TO THE LIFT STATION SITE PLAN STANDARD DETAIL S7.0.
9. SLOPE THE ENTIRE SITE AWAY FROM THE LIFT STATION BUILDING AT A MINIMUM 2% SLOPE TO PREVENT WATER FROM PONDING ON THE SITE.
10. MINIMUM LIFT STATION AREA IS 60' x 60', FENCED PER UDOT DETAIL NO. FG-6 w/ A 16' WIDE DOUBLE SWING GATE. REFER TO THE LIFT STATION SITE PLAN STANDARD DETAIL S6.0.
11. SEAL ALL OPENINGS THRU CONCRETE PAD INTO STATION ENCLOSURE GAS TIGHT.
12. A GAS TIGHT FLOOR DRAIN IS REQUIRED IN THE BUILDING. SLOPE THE CONCRETE FLOOR TO THE FLOOR DRAIN. DRAIN INTO THE WET-WELL.
13. THE FOLLOWING UTILITIES MUST BE RUN TO THE LIFT STATION SITE. THERE ARE NO EXCEPTIONS TO THIS REQUIREMENT. ALL OF THESE UTILITIES MUST BE BROUGHT INTO THE LIFT STATION SITE. ALL METER AND PANEL LOCATIONS MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION:
NATURAL GAS
POWER
TELEPHONE/FIBER INTERNET (IF AVAILABLE)
CULINARY WATER
14. THE CONTROL PANEL MUST BE ANCHORED TO THE CONCRETE PAD.
15. PROVIDE A DUPLEX OUTLET INSIDE THE CONTROL PANEL. SCADA EQUIPMENT MUST BE PLUGGED IN INSIDE THE CONTROL PANEL.
16. THE BUILDING SHALL COME EQUIPPED WITH A 12-VOLT DC EMERGENCY LIGHTING SYSTEM THAT WILL PROVIDE 50 WATTS OF ILLUMINATION FOR 1-1/2 HOURS IN THE EVENT OF AN EMERGENCY.
17. A MASONRY BLOCK STRUCTURE w/ INSULATED AND STEEL FRAMED METAL ROOF IS REQUIRED. THE MINIMUM BUILDING DIMENSIONS ARE 14' WIDE x 20' LONG x 10' TALL. THERE MUST BE AT LEAST 3' OF CLEARANCE ALL AROUND. HEIGHT CLEARANCE MUST ALLOW FOR THE LIFTING BEAM TO BE TALL ENOUGH TO LIFT THE PUMP EQUIPMENT UP AND OVER THE OTHER EQUIPMENT.
18. THIS DETAIL DRAWING DOES NOT TAKE THE PLACE OF STAMPED ENGINEERING DRAWINGS FOR THE LIFT STATION. STRUCTURAL DRAWINGS MUST BE PROVIDED FOR THE MASONRY BUILDING THAT ARE STAMPED BY A LICENSED STRUCTURAL ENGINEER. SUBMITTALS, SHOP DRAWINGS, ENGINEERING CALCULATIONS, AND STAMPED CONSTRUCTION DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER FOR ALL PROPOSED PUMP EQUIPMENT AND FOR THE BUILDING. THE DIMENSIONS SHOWN ON THIS DRAWING ARE PROVIDED TO SHOW THE MINIMUM CLEARANCES THAT MUST BE MET.
19. 120-VOLT ELECTRICAL OUTLETS MUST BE LOCATED A MINIMUM OF 12" ABOVE THE FLOOR.
20. SUBMITTALS ARE REQUIRED FOR ALL LIGHTS, FANS, HEATER, ELECTRICAL EQUIPMENT, PUMPS, AUTO-DIALERS, ETC. AN OWNER'S MANUAL MUST BE PROVIDED TO THE CITY FOR ALL EQUIPMENT IN THE LIFT STATION PRIOR TO COMPLETION OF THE PROJECT.
21. THE CONTROL PANEL SHALL BE EQUIPPED WITH AN DORSETT SCADA SYSTEM TO PROVIDE CONTACT WITH CITY PERSONNEL ON ALL ALARM POINTS.
22. WET-WELL. THE SIZE OF THE WET-WELL AND THE DISTANCE FROM THE INVERT OF THE INFLUENT LINE TO THE CONCRETE PAD SHOULD BE PROPERLY DESIGNED TO ALLOW AT LEAST TEN MINUTES LAPSED TIME BETWEEN SUCCESSIVE STARTS OF A PUMP TO PREVENT SHORT CYCLING OF ELECTRIC MOTORS AND CONTROL.



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S5.0D

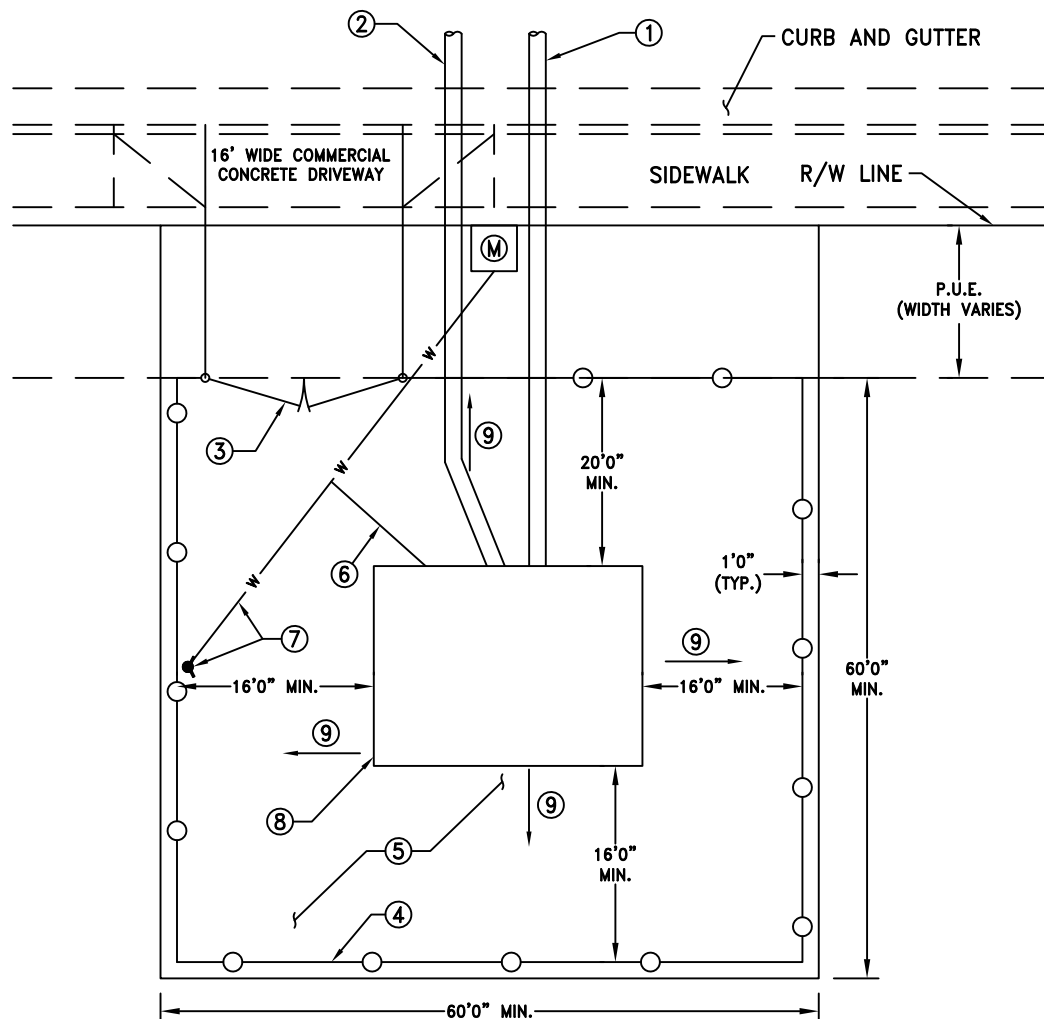
SHEET:
4 of 4

CONSTRUCTION NOTES:

- ① NEW PVC SDR-35 GRAVITY SEWER LINE GOING INTO LIFT STATION. (LINE SIZE PER PLANS)
- ② NEW PVC C900 PRESSURE SEWER PUMPBACK LINE GOING FROM LIFT STATION. (LINE SIZE PER PLANS)
- ③ INSTALL 16' WIDE x 6' HIGH DOUBLE SWING GATE WITH (3) STRANDS OF BARBED WIRE PER UDOT STANDARD DRAWING FG-6.
- ④ INSTALL 6' TALL CHAIN LINK FENCE WITH (3) STRANDS OF BARBED WIRE ON ARMS PER UDOT STANDARD DRAWING FG-6.
- ⑤ INSTALL 3" MINUS DRAIN ROCK 6" THICK IN THE ENTIRE FENCED IN AREA.
- ⑥ INSTALL 1" WATER LINE INTO BUILDING FOR SELF-PRIMING LIFT STATION.
- ⑦ INSTALL NEW FROST FREE HYDRANT AND DRAIN ROCK INCLUDING 1" WATER LINE FROM METER BOX.
- ⑧ LIFT STATION ENVELOPE PER ENGINEERED CONSTRUCTION PLANS FOR ALL BUILDINGS, CONCRETE, UTILITY METERS, ELECTRICAL EQUIPMENT, WET-WELL, ETC.
- ⑨ 2% MIN. SLOPE FROM TOP OF SLAB DOWN TO SURROUNDING GRADE.

NOTES:

1. THIS DETAIL DRAWING DOES NOT TAKE THE PLACE OF STAMPED ENGINEERING DRAWINGS FOR THE LIFT STATION SITE PLAN. THE DIMENSIONS SHOWN ON THIS DRAWING ARE PROVIDED ONLY TO SHOW THE MINIMUM CLEARANCES THAT MUST BE MET.
2. THE FOLLOWING UTILITIES MUST BE INSTALLED TO THE LIFT STATION SITE:
CULINARY WATER
TELEPHONE/FIBER INTERNET (IF AVAILABLE)
POWER
GAS
3. AUTO-DIALER IS REQUIRED FOR REMOTE MONITORING OF THE LIFT STATION.



PLAN VIEW
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SEWER LIFT STATION SITE PLAN

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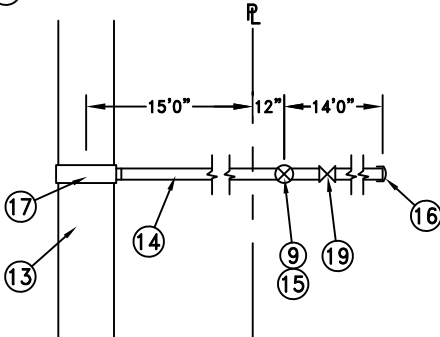
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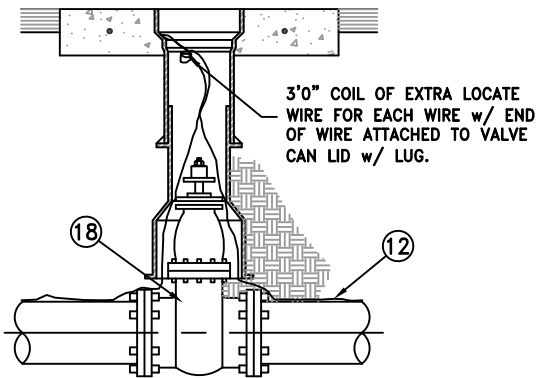
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CONSTRUCTION NOTES:

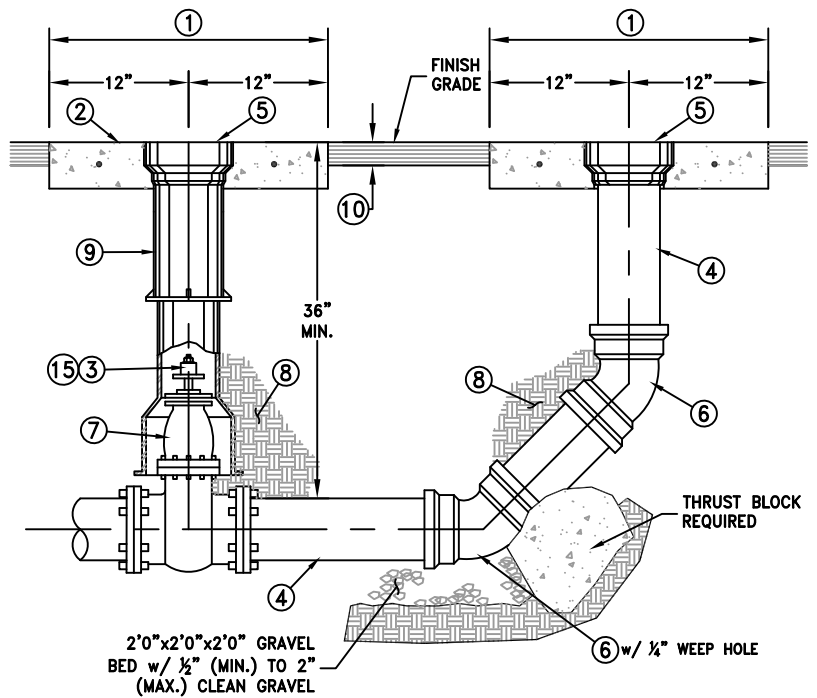
- ① 24" DIAMETER or SQUARE CONCRETE COLLAR 8" THICK. REINFORCEMENT #4 BAR 16" SQUARE w/ FIBERS (TYP.)
- ② TOP OF VALVE BOX AND CONCRETE COLLAR TO BE $\frac{1}{4}$ " BELOW FINAL STREET GRADE.
- ③ IF TOP OF VALVE NUT IS MORE THAN 4'0" DEEP THEN VALVE STEM EXTENSION IS REQUIRED PER DETAIL.
- ④ CLEAN OUT PIPE SIZE & MATERIAL SHALL BE THE SAME AS THE PRESSURE SEWER MAIN.
- ⑤ PIPE METAL CAP w/ LETTERS "SEWER"
- ⑥ 45° BEND REQ'D w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
- ⑦ GATE VALVE (TYP.) w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
- ⑧ TRENCH BACKFILL
- ⑨ CAST IRON SCREW TYPE VALVE BOX
- ⑩ PAVEMENT STRUCTURE AS SPECIFIED BY THE DESIGN AGENCY
- ⑪ TRACE-O-FLEX MARKER w/ TERMINAL POINTS BY CARSONITE - (ORANGE COLOR)
- ⑫ 12 GA. INSULATED COPPER LOCATE WIRE DUCT TAPED TO TOP OF PIPE AT 10'0" INTERVALS
- ⑬ PRESSURE SEWER MAIN.
- ⑭ SCH. 40 PVC PIPE (SIZE VARIES)
- ⑮ GATE VALVE w/ 2" VALVE WRENCH NUT
- ⑯ PVC CAP
- ⑰ TAPPING SADDLE PER SPECS.
- ⑱ INLINE ISOLATION VALVE (SEE NOTES)
- ⑲ CHECK VALVE BY CUSTOMER AT TIME OF CONNECTION.



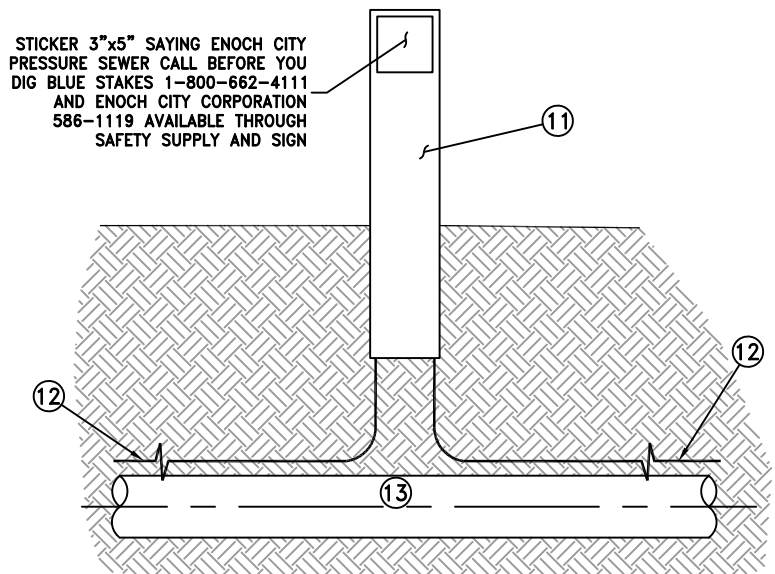
PRESSURE SEWER LATERAL
N.T.S.



PAVED AREA LOCATE WIRE TERMINATION
N.T.S.



PRESSURE SEWER CLEAN-OUT DETAIL
N.T.S.



UNPAVED AREA LOCATOR POST DETAIL
N.T.S.

NOTES:

1. LOCATOR POSTS TO BE PLACED AT 1000'0" MAX. SPACING NEXT TO IN-LINE VALVES AND BENDS ON PRESSURE SEWER MAIN.
2. PRESSURE SEWER CLEAN-OUT TO BE PLACED AT 2000'0" MAX. SPACING NEXT TO END OF PIPES or IN-LINE VALVES.
3. IN-LINE VALVES TO BE PLACED EVERY 2000'0" MAX. ON PRESSURE SEWER LINES.
4. IN PAVED AREAS LOCATE WIRE SHALL BE TERMINATED IN THE VALVE CANS OF THE IN-LINE VALVES PER DETAIL.



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PRESSURE SEWER CLEAN-OUT, LATERAL & LOCATOR POST

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

S7.0

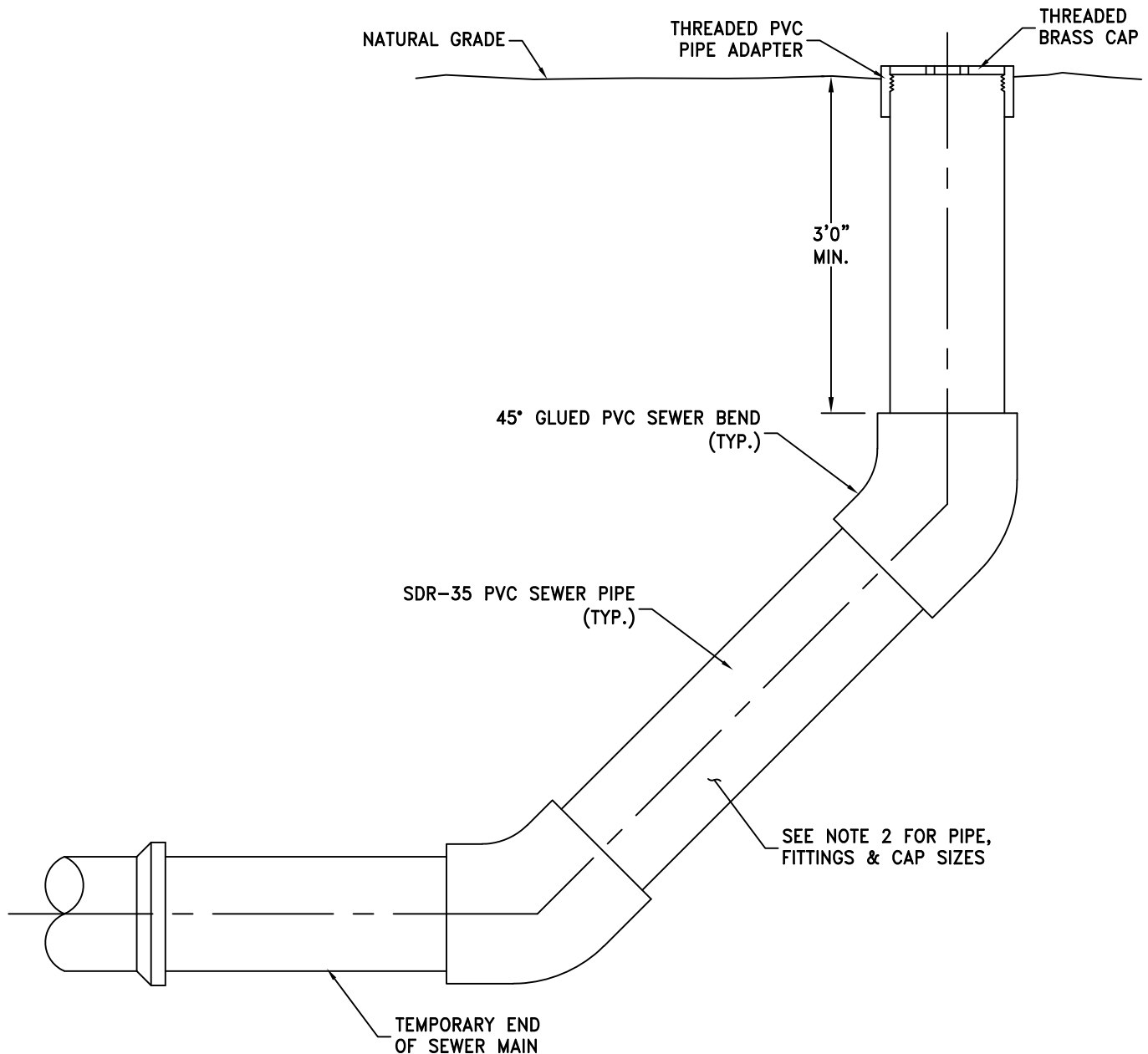
SHEET:
1 of 1

- ① PETERSON SERIES 142 HAND TIGHTENING TEST PLUG TO BE REMOVED WHEN PUMP STATION IS ELIMINATED.
- ② FLOW CHANNEL
- ③ 4' DIA. SEWER MANHOLE
- ④ BURLAP SAND BAGS - TO BE REMOVED WHEN PUMP STATION IS ELIMINATED
- ⑤ FLOW CHANNEL TO PUMP STATION TO BE FILLED WITH GROUT WHEN PUMP STATION IS ELIMINATED.



SEWER LIFT STATION MANHOLE

SHEET:
1 of 1



TEMPORARY SEWER MAIN CLEAN-OUT DETAIL
(UNPAVED AREA)
N.T.S.

NOTES:

1. PERMANENT ENDS OF SEWER MAIN SHALL HAVE A SEWER MANHOLE PER DETAIL S2.0.
2. THE DIAMETER OF ALL PIPE, FITTINGS AND CAP OF THE TEMPORARY SEWER CLEAN-OUT SHALL BE THE SAME DIAMETER OF THE SEWER MAIN LINE.



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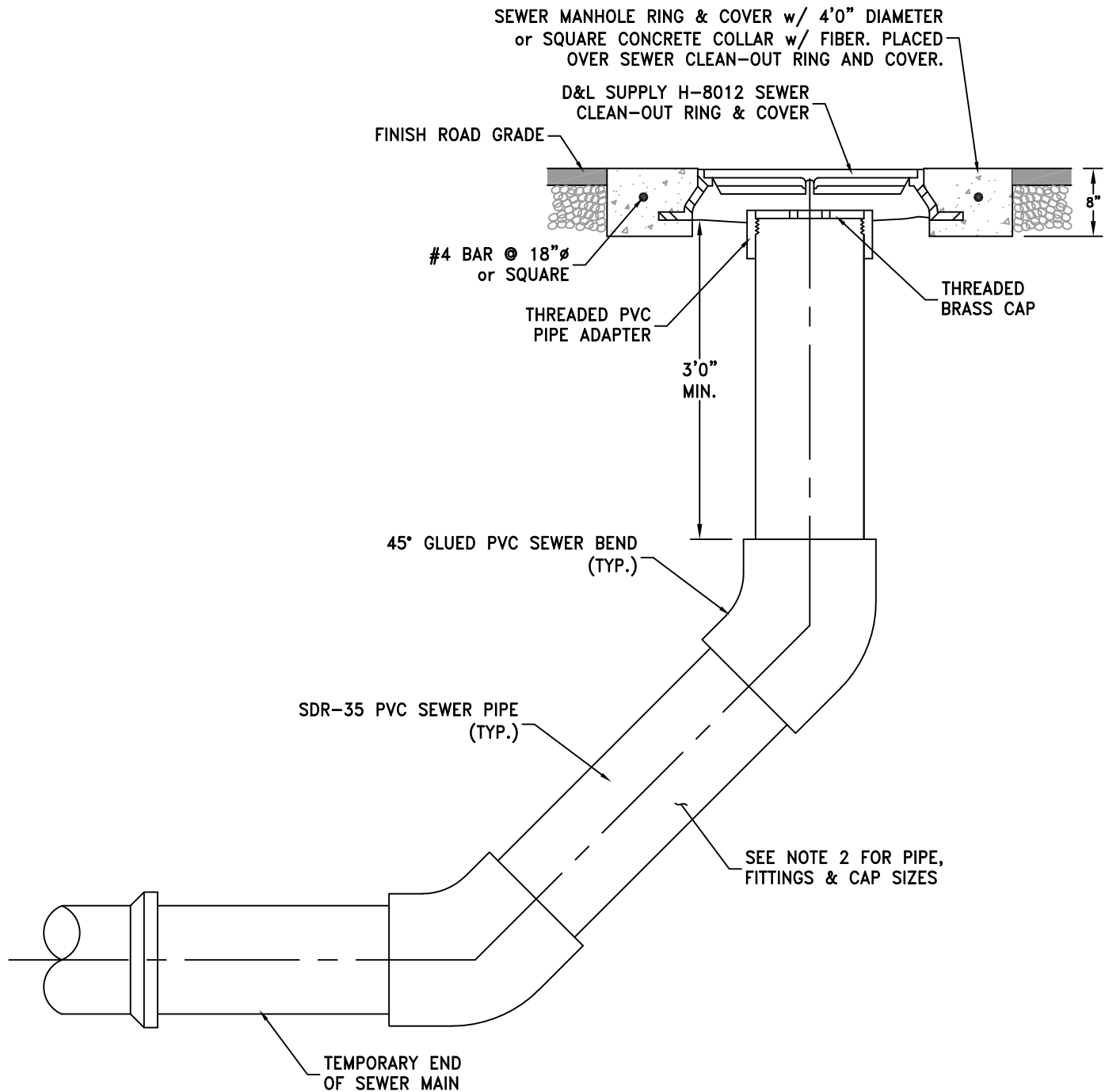
**TEMPORARY SEWER
MAIN CLEAN-OUT
(UNPAVED AREA)**

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

S9.1

SHEET:
1 of 1



TEMPORARY SEWER MAIN CLEAN-OUT DETAIL
(PAVED AREA)
N.T.S.

NOTES:

1. PERMANENT ENDS OF SEWER MAIN SHALL HAVE A SEWER MANHOLE PER DETAIL S2.0.
2. THE DIAMETER OF ALL PIPE, FITTINGS AND CAP OF THE TEMPORARY SEWER CLEAN-OUT SHALL BE THE SAME DIAMETER OF THE SEWER MAIN LINE.



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**TEMPORARY SEWER
MAIN CLEAN-OUT
(PAVED AREA)**

SCALE:
N.T.S.
DATE:
DEC. 2022

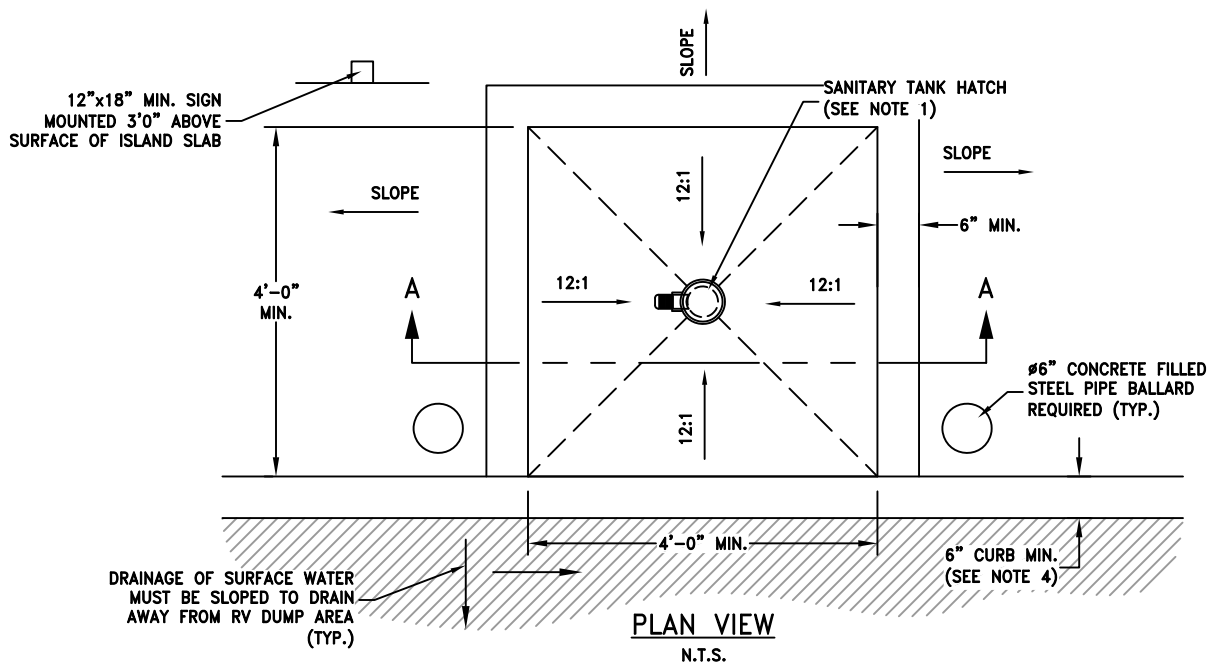
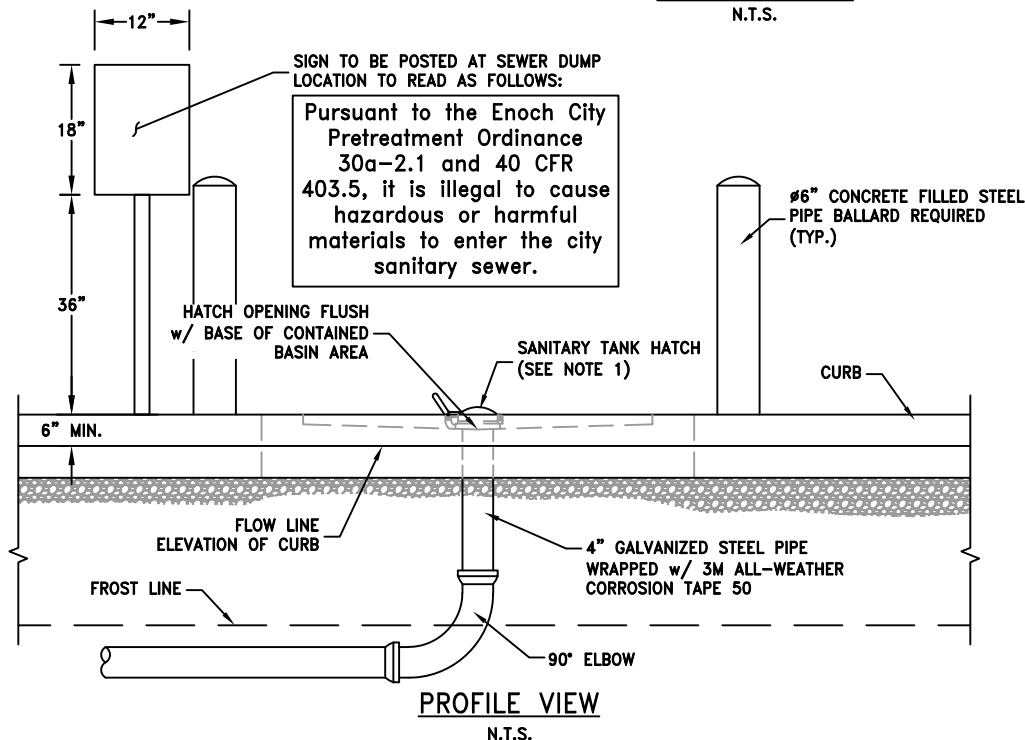
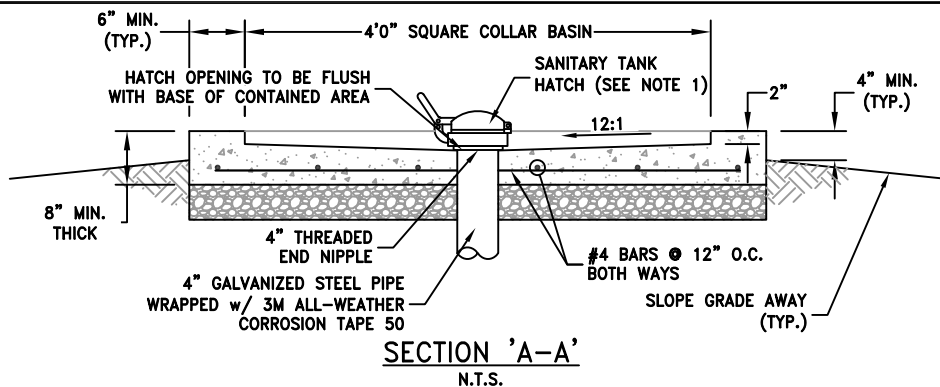
DETAIL No.:

S9.2

SHEET:
1 of 1

NOTES:

1. SANITARY TANK HATCH SHALL BE OPW 269 4" DIA. SELF-CLOSING, FOOT OPERATIONAL and/or SPRING/WEIGHTED COVER or APPROVED EQUAL. OPENING SHALL BE FLUSH WITH BASE/GRADE OF CONTAINED AREA.
2. IF WATER SERVICE IS TO BE PROVIDED ALL STEPS SHALL BE TAKEN TO FOLLOW STATE & FEDERAL LAWS FOR PROPER USE OF CULINARY WATER AROUND OPEN WASTE RV DUMP STATIONS.
3. THE CITY RESERVES THE RIGHT TO VERIFY, APPROVE, or DENY THE LOCATION OF ANY PROPOSED RV DUMP STATION DUE TO PROXIMITY TO A STORM WATER CATCH BASIN.
4. CURB AND GUTTER ALSO PERMITTED.



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RV DUMP STATION

SCALE:
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DATE:
DEC. 2022

DETAIL No.:

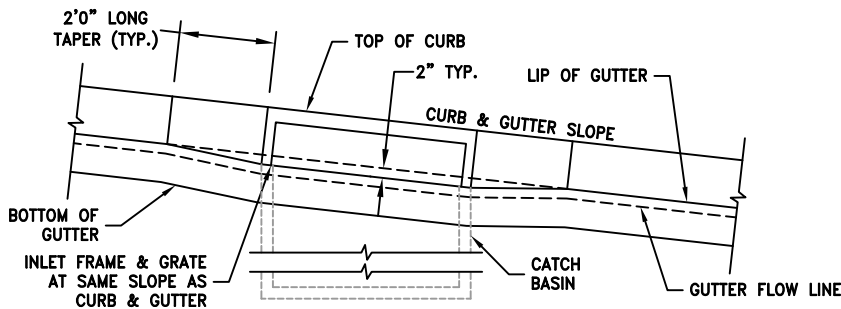
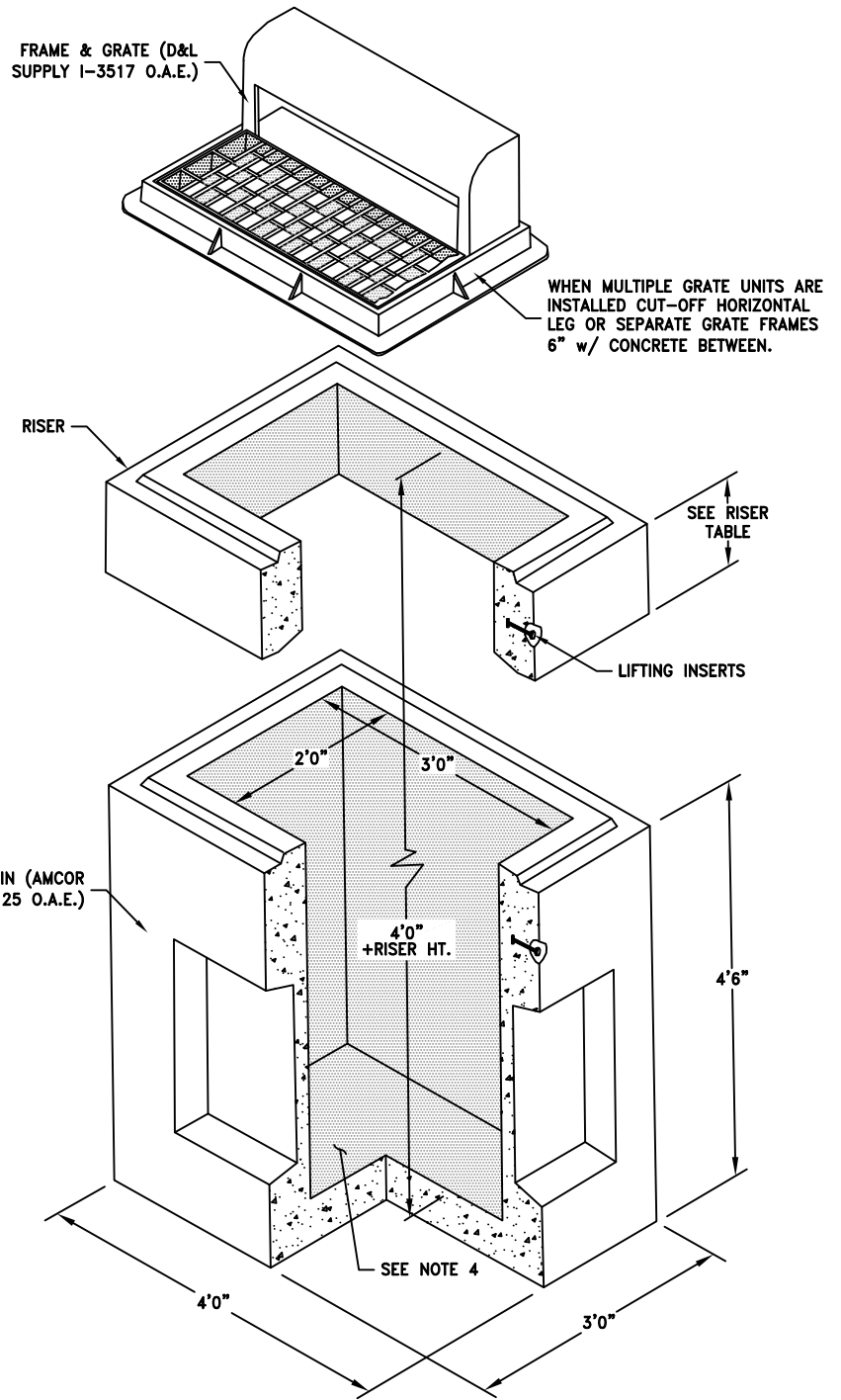
S10.0

SHEET:
1 of 1

HEIGHT	RISER CODE	WEIGHT
1'0"	CB231R	930#
2'0"	CB232R	1860#
3'0"	CB233R	2790#

NOTES:

1. WHEN REQUIRED MULTIPLE UNIT ASSEMBLIES SHALL BE INSTALLED WITH A SINGLE CATCH BASIN ENLARGED ACCORDINGLY.
2. CAST IN PLACE BOXES MAY BE USED WHEN APPROVED BY THE CITY ENGINEER.
3. TOP OF INLET BOX GRATE TO BE RECESSED 2" LOWER THAN FLOW LINE OF GUTTER AS SHOWN IN DETAIL BELOW.
4. CONCRETE TROUGH FLOW LINE REQUIRED PER DETAIL D5.0 ON IN-LINE/FLOW THRU BOXES.
5. BOX & GRATE GRADE TO MATCH GRADE OF CURB AND GUTTER GRADE.
6. GRATE FRAME TO BE SET DIRECTLY ON TOP OF BOX OR TOP OF PRECAST CONCRETE GRADE RING AT THE ELEVATION 2" LOWER THAN FLOW LINE OF THE CURB AND GUTTER PER THE INLET RECESS DETAIL BELOW.



INLET RECESS DETAIL
N.T.S.



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CURB INLET BOX

SCALE:
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DEC. 2022

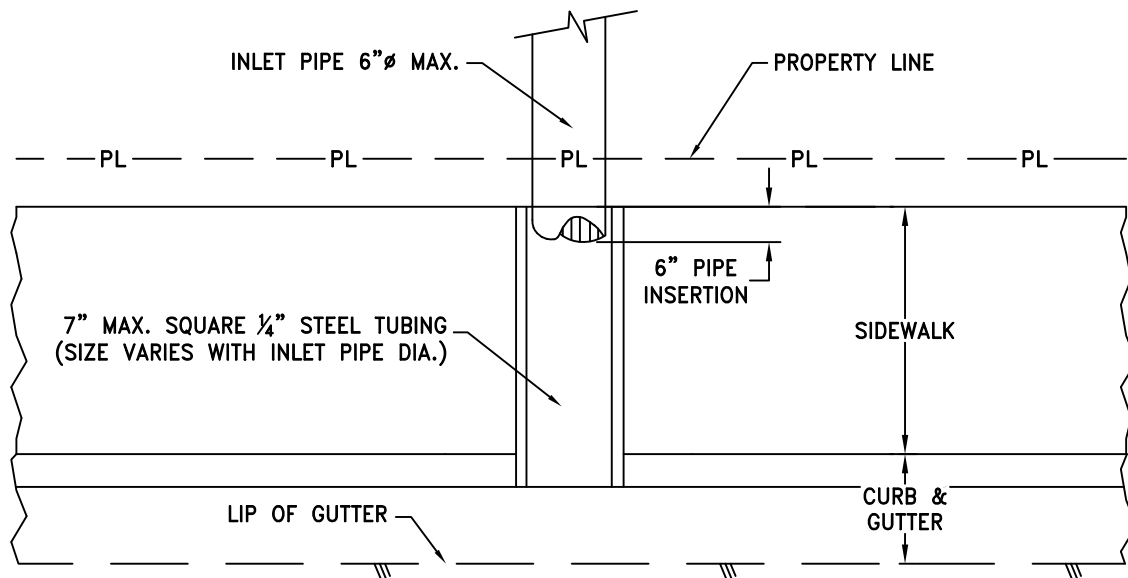
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D1.0

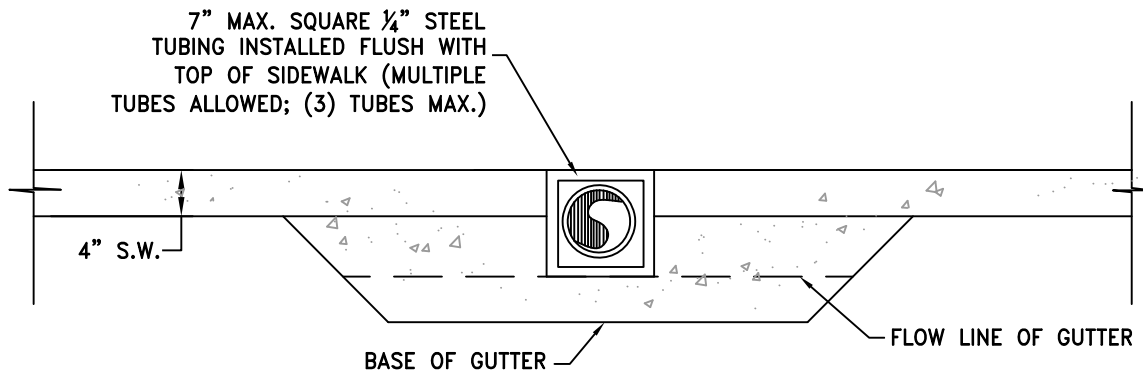
SHEET:
1 of 1



1. ALL EXPOSED METAL PARTS SHALL BE A-36 HOT DIPPED GALVANIZED or PAINTED AND ALL GALVANIZING DAMAGED BY FABRICATION or INSTALLATION SHALL RECEIVE TWO COATS OF GALVANIZED PAINT (PAINT TO BE RUSTOLEUM GALVANIZING COMPOUND SPRAY or EQUAL).



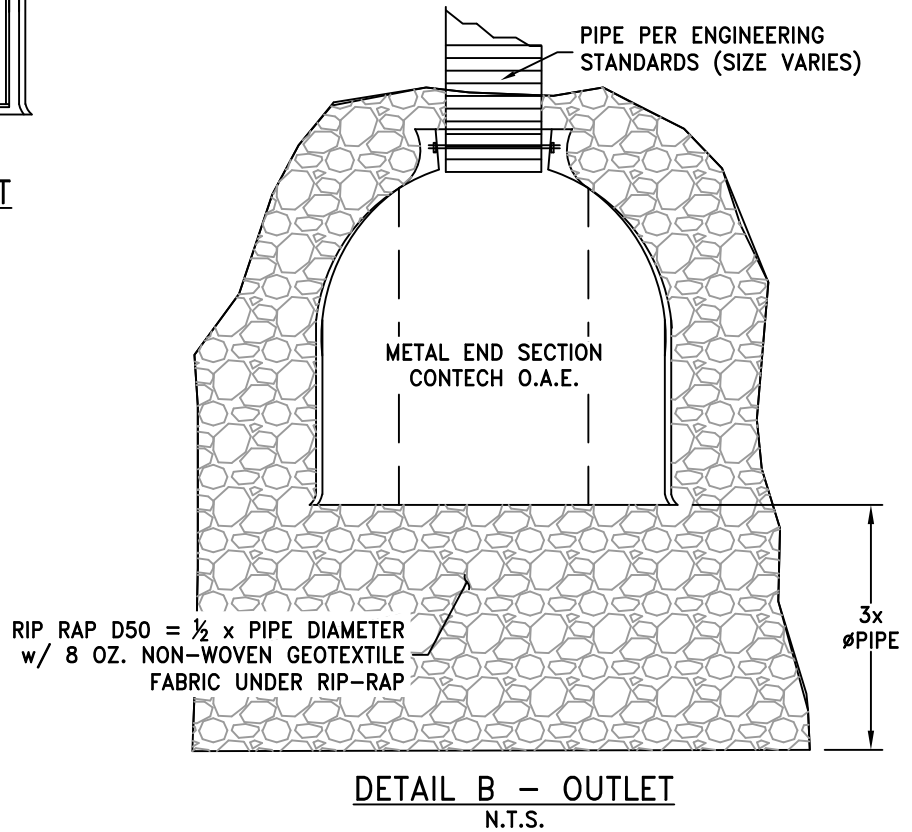
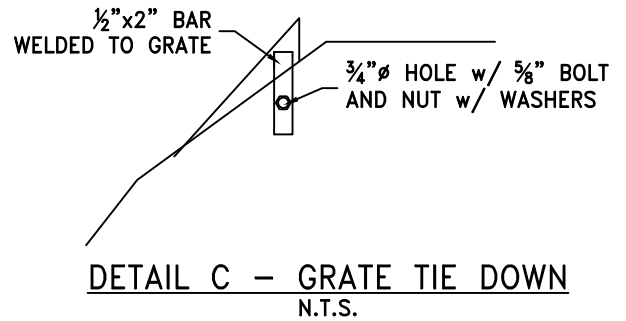
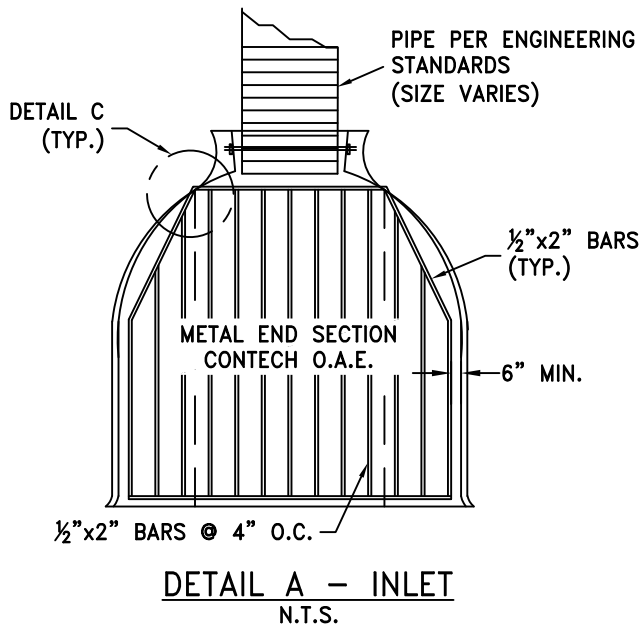
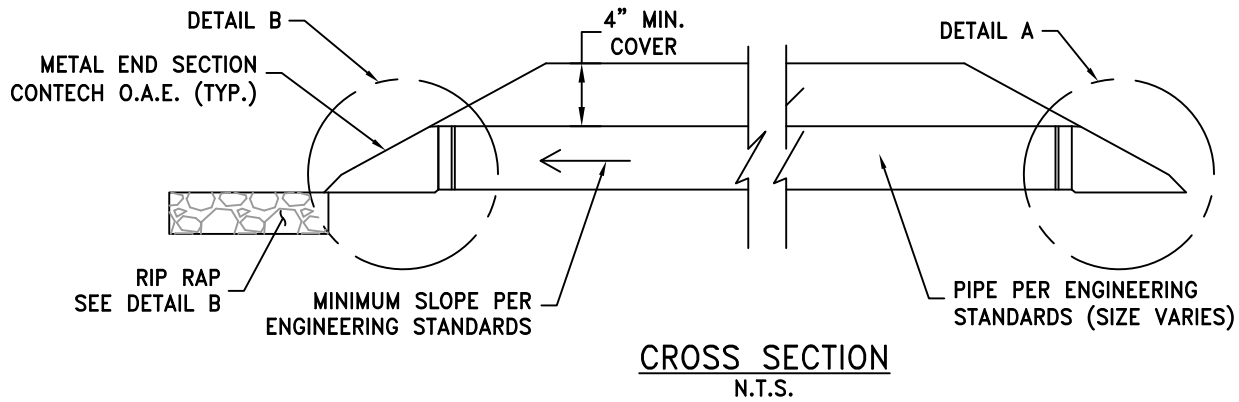
PLAN VIEW
N.T.S.

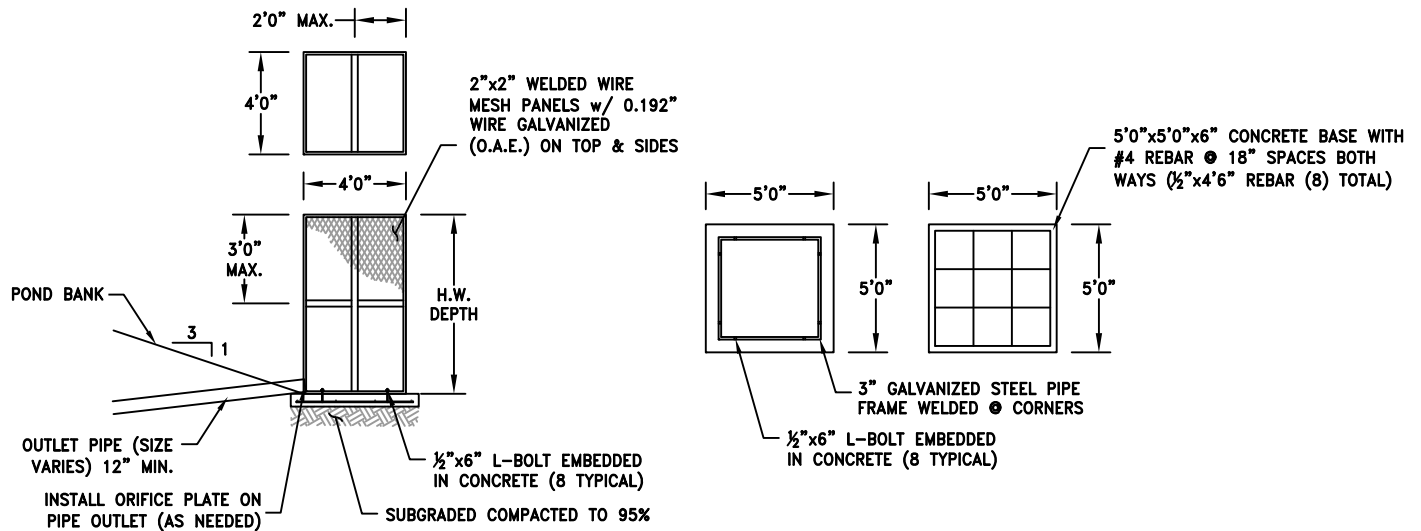
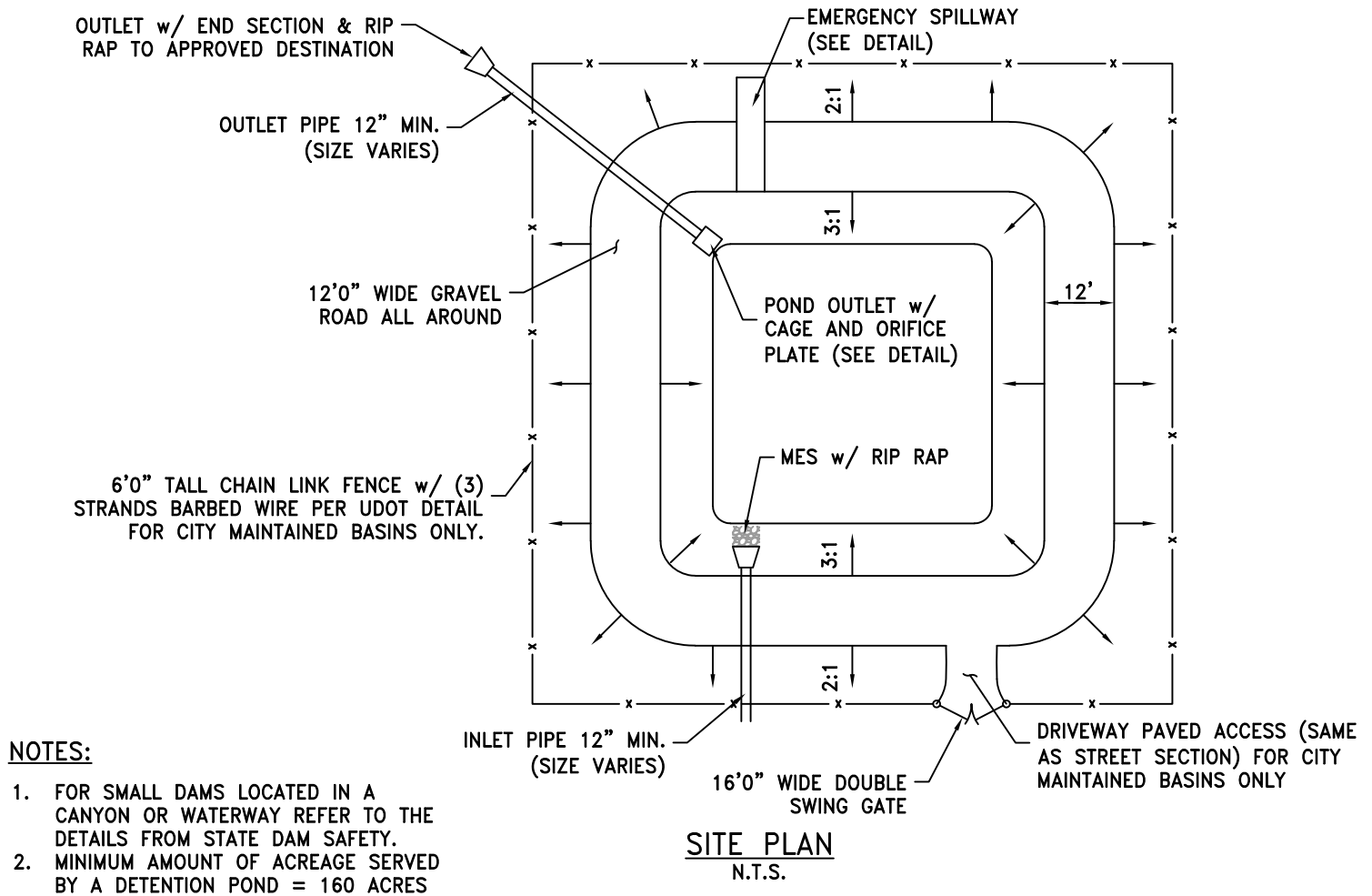


SECTION
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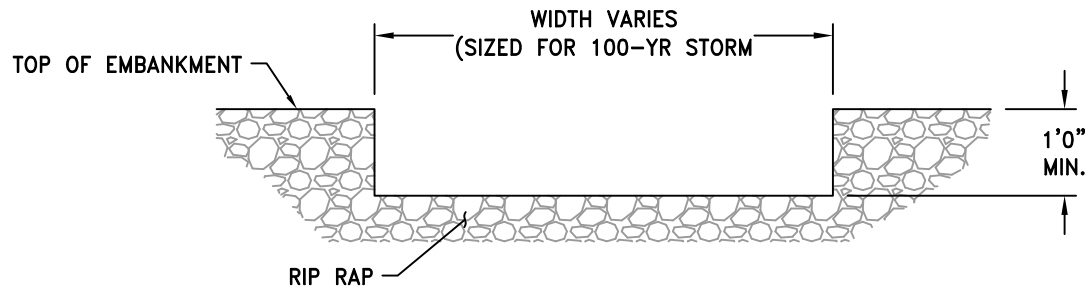
NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE A-36 HOT DIPPED GALVANIZED or PAINTED AND ALL GALVANIZING DAMAGED BY FABRICATION or INSTALLATION SHALL RECEIVE TWO COATS OF GALVANIZED PAINT (PAINT TO BE RUSTOLEUM GALVANIZING COMPOUND SPRAY or EQUAL).

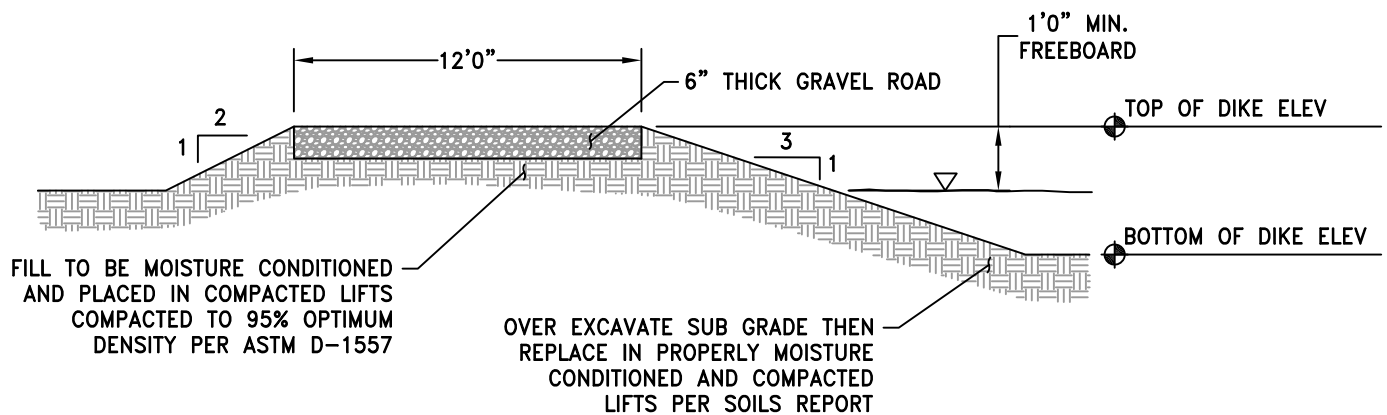




SCREEN POND OUTLET DETAIL
N.T.S.



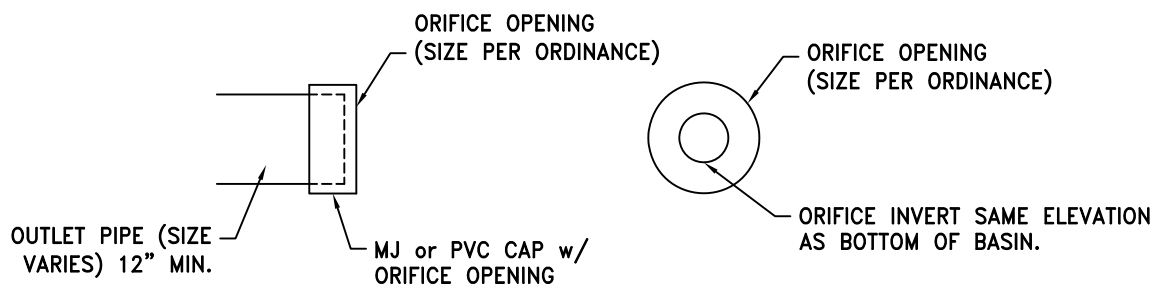
EMERGENCY SPILLWAY DETAIL
N.T.S.



NOTES:

1. FILL SHALL BE PLACED IN LOOSE LIFT THICKNESS WHICH DOES NOT EXCEED THE CAPACITY OF THE EQUIPMENT BEING UTILIZED NOT TO EXCEED 8". MAXIMUM LIFT THICKNESS SHALL BE REDUCED TO 4" FOR HAND COMPACTION EQUIPMENT.

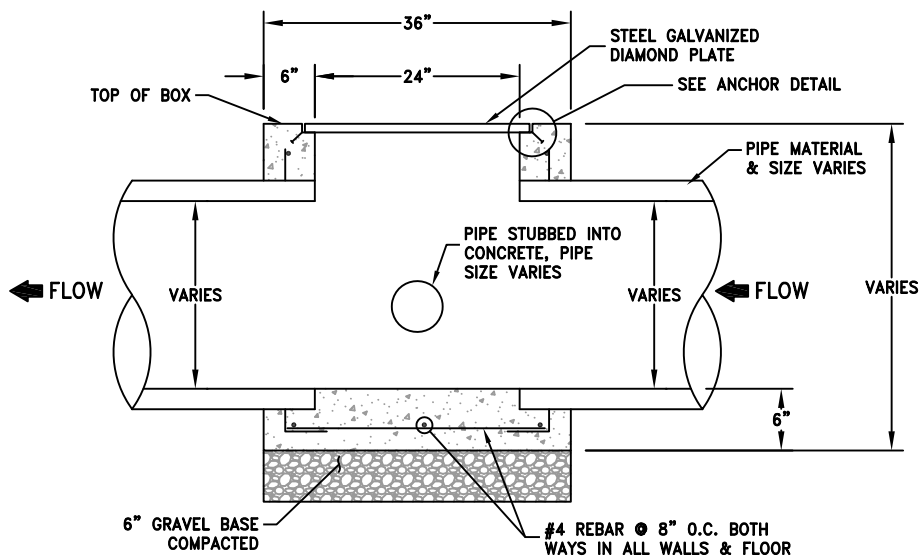
EMBANKMENT SECTION DETAIL
N.T.S.



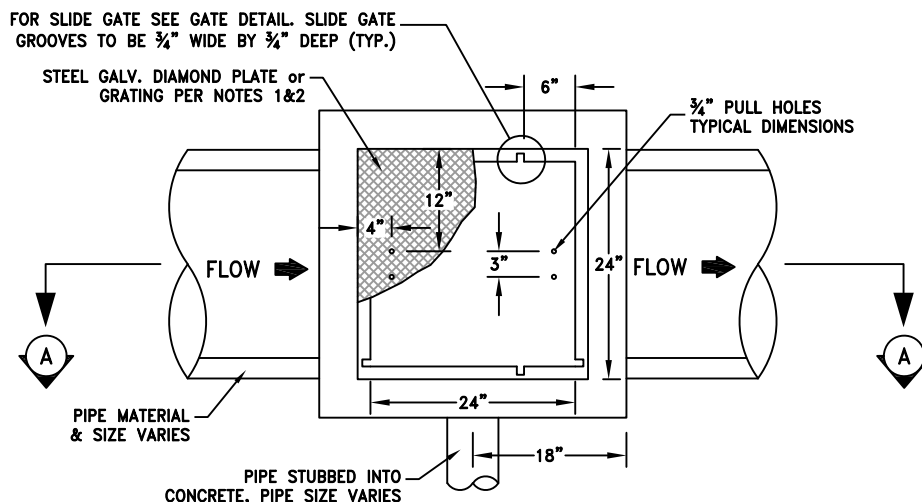
ORIFICE DETAIL
N.T.S.

NOTES:

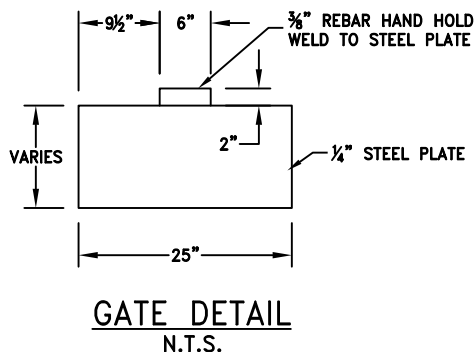
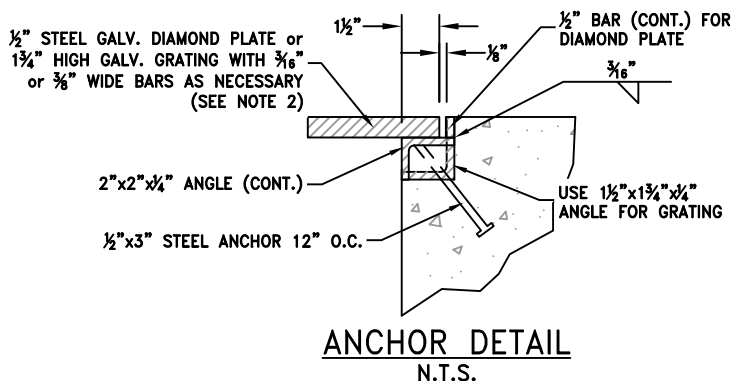
1. ALL EXPOSED METAL PARTS SHALL BE A-36 GALVANIZED STEEL AND ALL GALVANIZING DAMAGED BY FABRICATION or INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX or EQUAL).
2. GRATING WITH $1\frac{3}{4}" \times \frac{3}{16}"$ BARS AND DIAMOND PLATE SHALL ONLY BE USED IN SIDEWALKS.

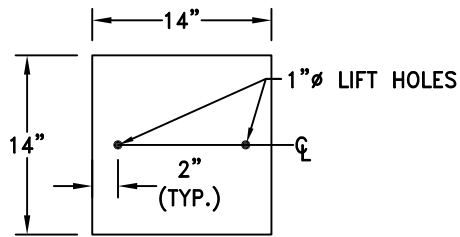


SECTION A-A
N.T.S.

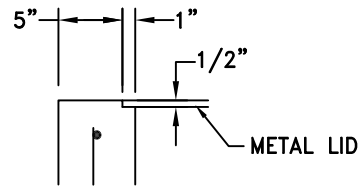


PLAN VIEW
N.T.S.

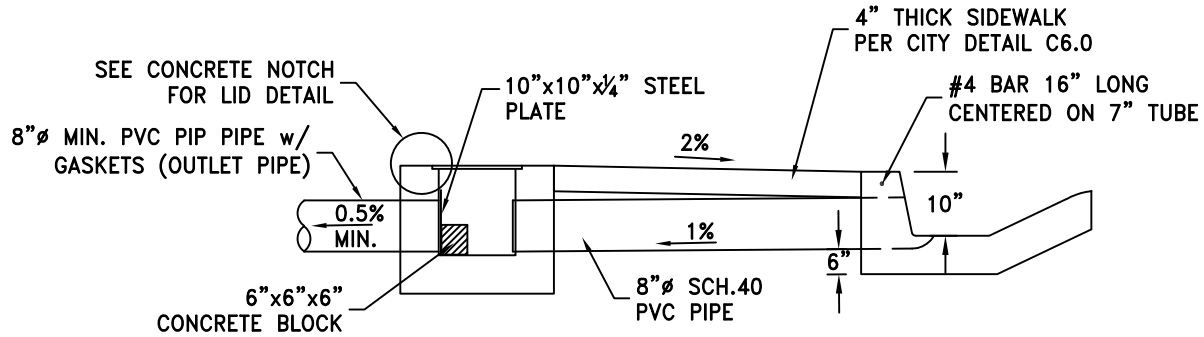




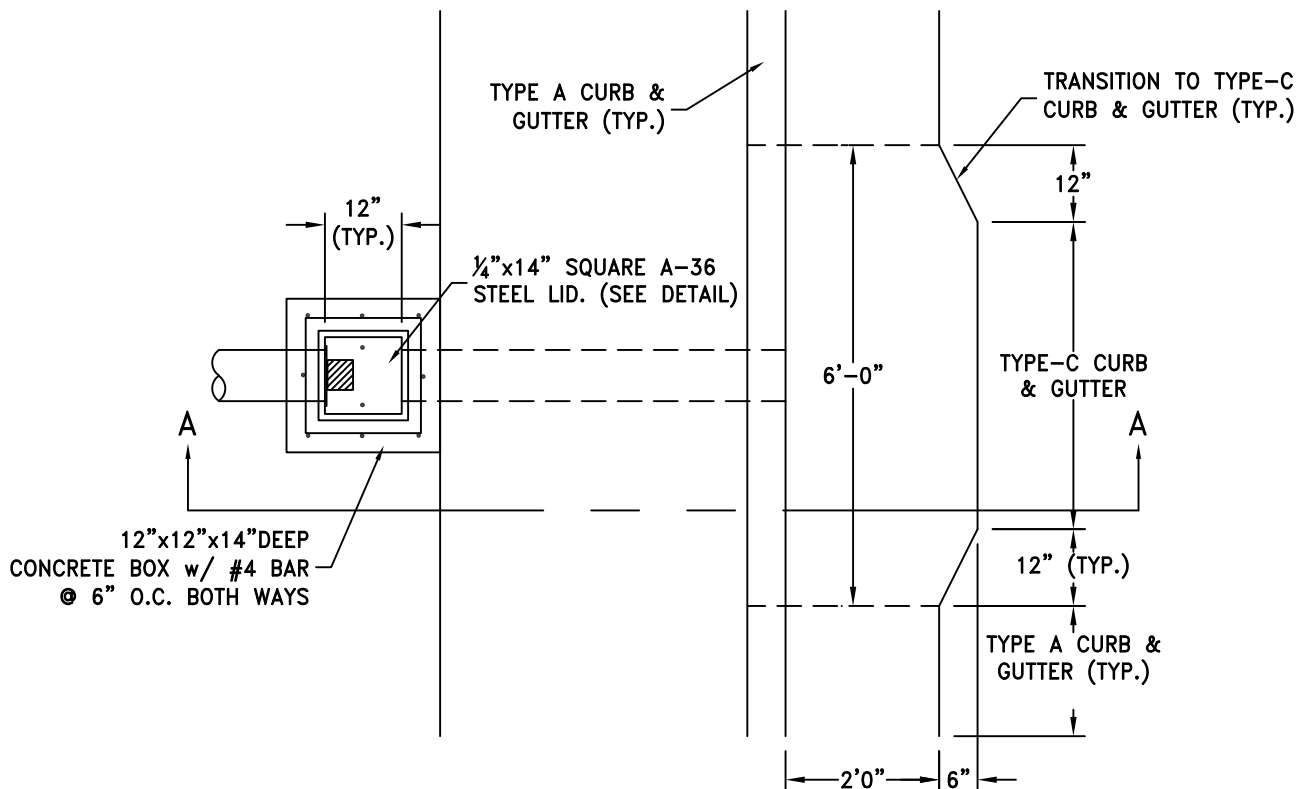
LID DETAIL
N.T.S.



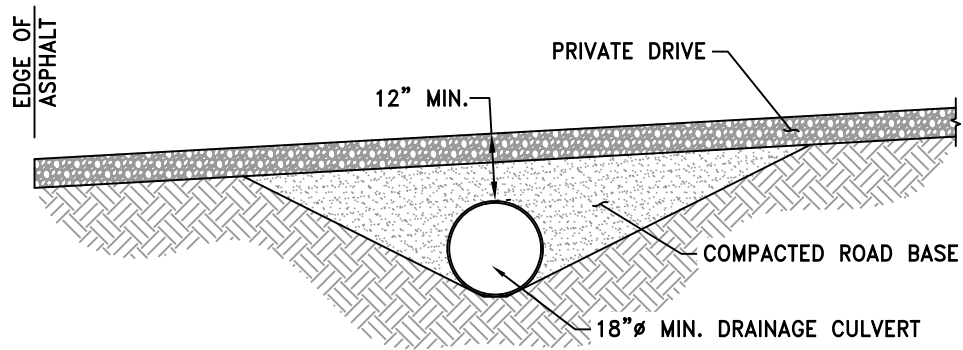
CONCRETE NOTCH
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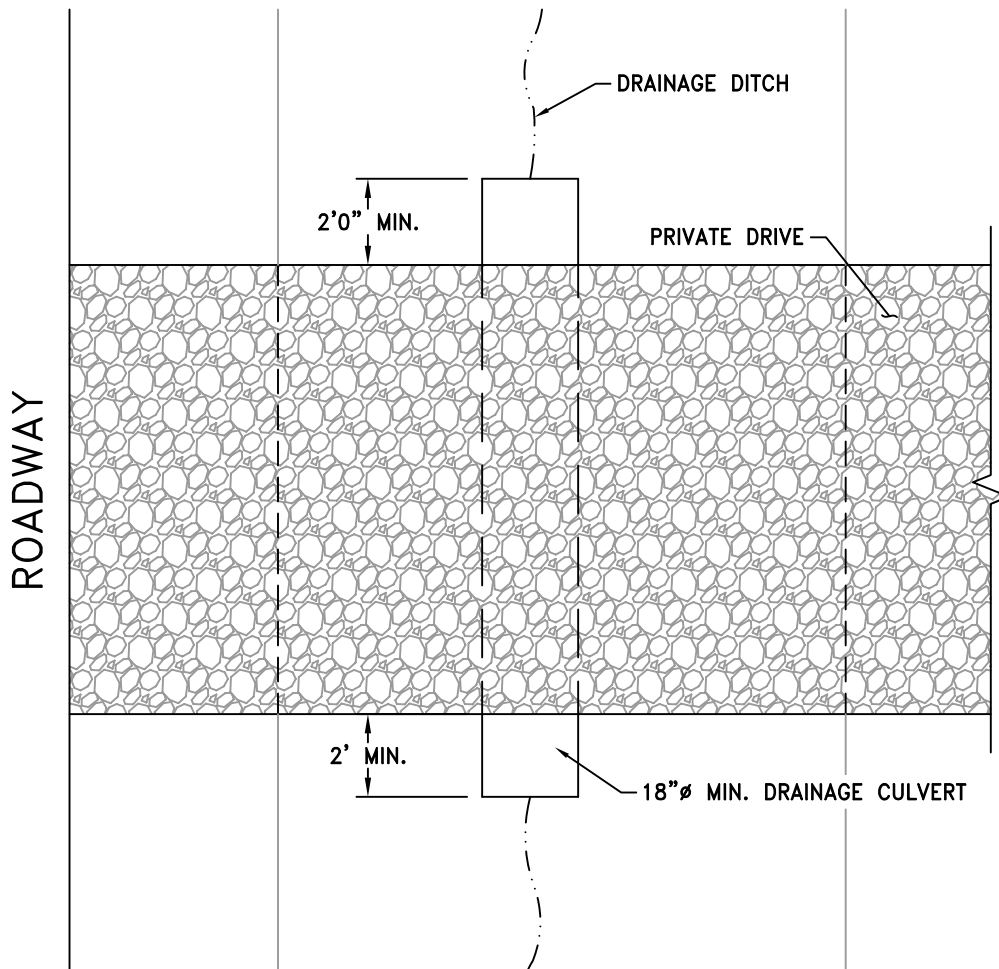
SECTION A-A
N.T.S.



PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.



PLAN VIEW
N.T.S.

NOTES:

1. ALL PIPE & INSTALLATION TO MEET CITY STANDARDS.
2. CULVERT TO HAVE A MINIMUM SLOPE OF 0.30%.



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BORROW DITCH
DRIVEWAY ACCESS

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

D9.0

SHEET:
1 of 1

ENOCH CITY MINIMUM TESTING REQUIREMENTS

DESCRIPTION	TEST / QUANTITY	QUANTITY	TESTS REQ'D
ROAD EMBANKMENT DENSITY TESTS	1/500 C.Y.	C.Y.	
ROAD SUBGRADE DENSITY TESTS	1/1,000 S.Y.	S.Y.	
TRENCH DENSITY TESTS			
STORM DRAINS / CULVERTS	2/200 L.F. OF TRENCH	L.F.	
STORM DRAIN MANHOLES / INLET BOX	2/MANHOLE OR BOX	EACH	
IRRIGATION LINE	2/200 L.F. OF TRENCH	L.F.	
WATER LINE (INCLUDES F. H. & SERVICE LATERALS)	2/200 L.F. OF TRENCH	L.F.	
SEWER LINE (INCLUDE SERVICE LATERALS)	5/200 L.F. OF TRENCH	L.F.	
SEWER MANHOLE	5/EACH MANHOLE	EACH	
VALVES	2/VALVE OR VALVE SET	EACH	
UTILITY CONDUITS	2/200 L.F. OF TRENCH	L.F.	
ROAD PIT RUN DENSITY TESTS	1/7,000 S.F.	S.F.	
ROAD PIT RUN THICKNESS TESTS	1/5,000 S.F.	S.F.	
ROAD BASE COURSE DENSITY TESTS	1/7,000 S.F.	S.F.	
ROAD BASE THICKNESS TESTS	1/5,000 S.F.	S.F.	
CURB/GUTTER BASE DENSITY TESTS	1/300 L.F.	L.F.	
SIDEWALK BASE DENSITY TESTS	1/300 L.F.	L.F.	
ASPHALT EXTRACTION TESTS	1/500 TONS OR 1 PER DAY WHICHEVER IS MORE	TON	
ASPHALT DENSITY TESTS	1/7,000 S.F.	S.F.	
ASPHALT THICKNESS TESTS	1/10,000 S.F.	S.F.	
CONCRETE CYLINDER BREAKS	3/50 C.Y.	C.Y.	
CONCRETE AIR ENTRAINMENT	1 IF INITIAL TEST PASSES	LOADS	
CONCRETE SLUMP TESTS	1 IF INITIAL TEST PASSES	LOADS	
ROAD BASE GRADATION TEST	1/15,000 S.F.	S.F.	
CURB & GUTTER BASE COURSE GRAD.	1/2,000 L.F.	L.F.	
CURB & GUTTER THICKNESS TEST	1/200 L.F.	L.F.	
SIDEWALK THICKNESS TEST	1/200 L.F.	L.F.	



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MINIMUM TESTING REQUIREMENTS

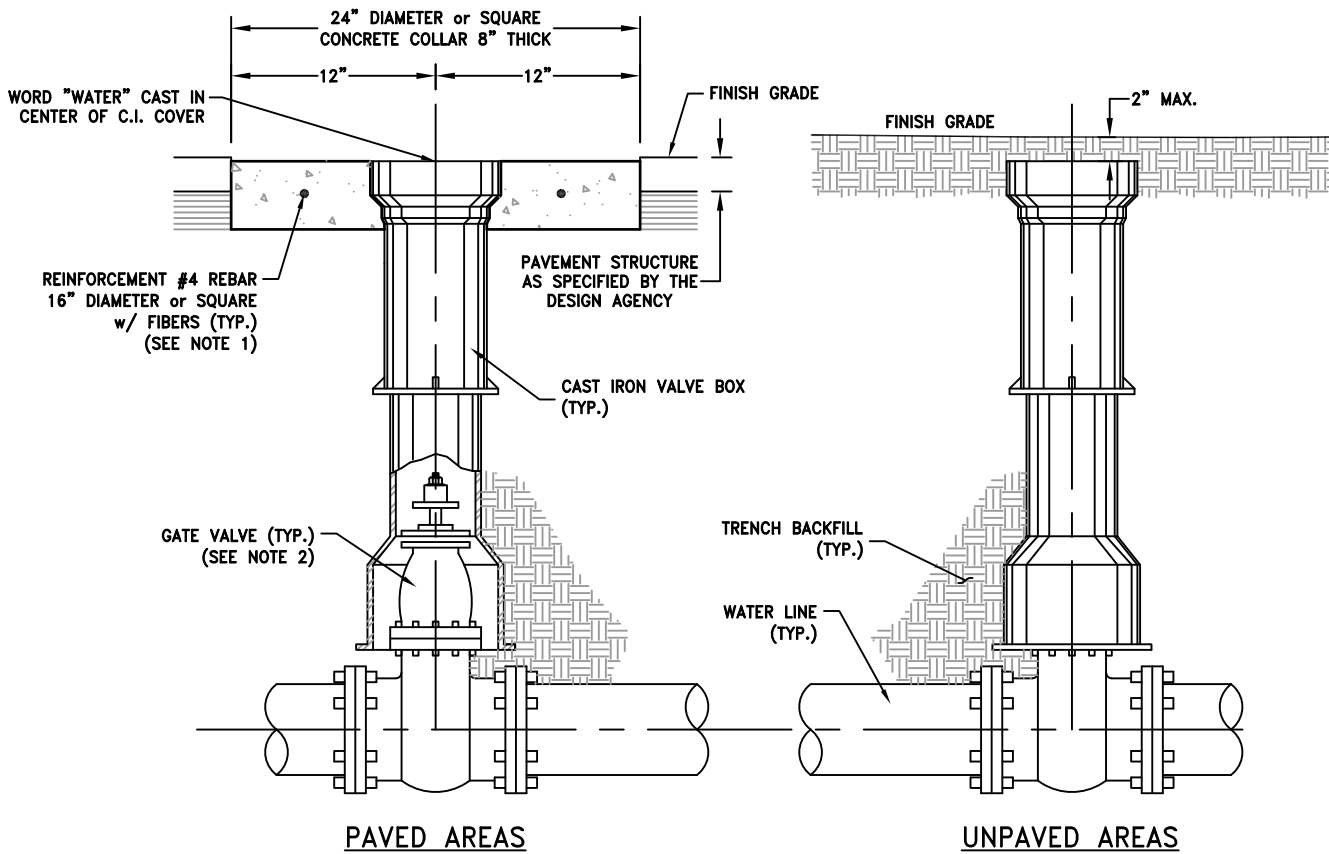
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DATE:
DEC. 2022

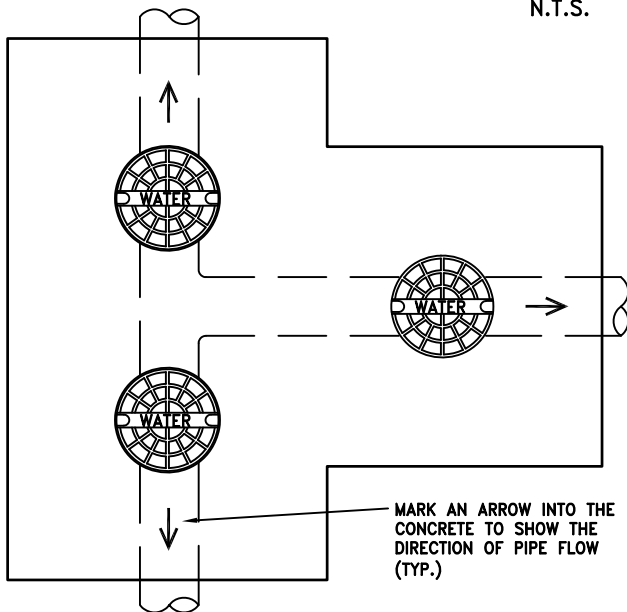
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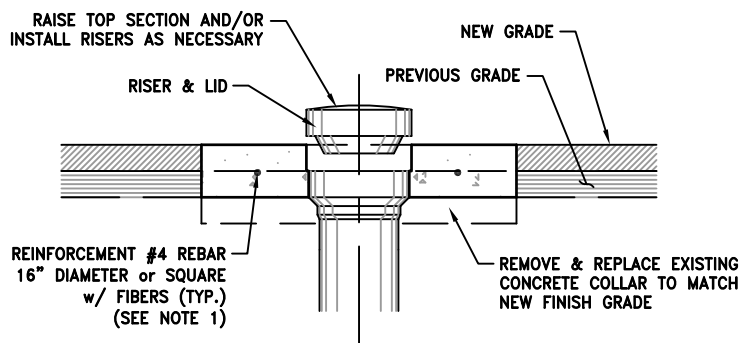
SHEET:
1 of 1



WATER VALVE BOX DETAIL
N.T.S.



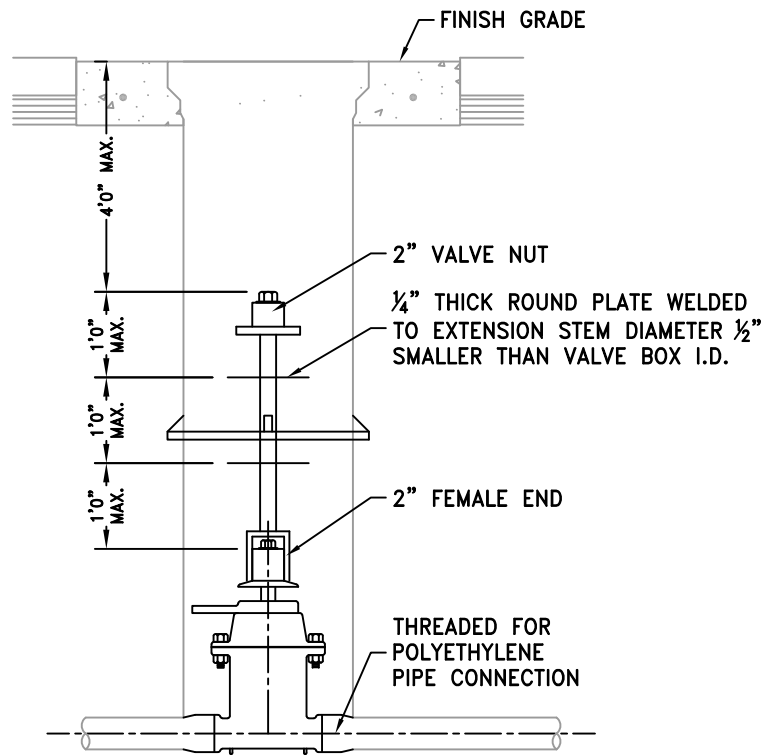
VALVE COLLAR DETAIL
N.T.S.



ADJUSTMENT

NOTES:

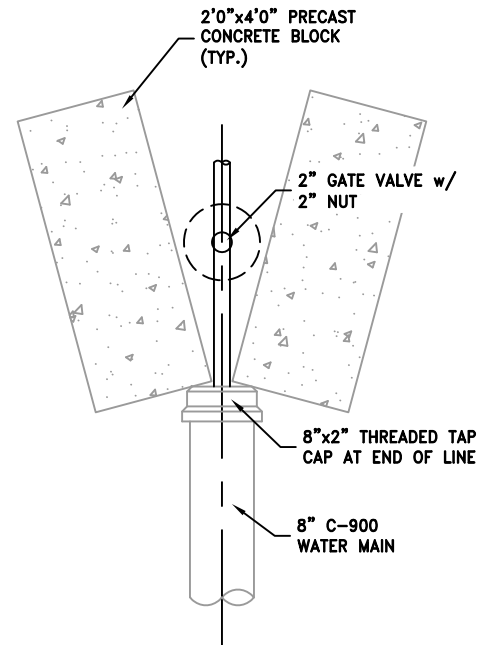
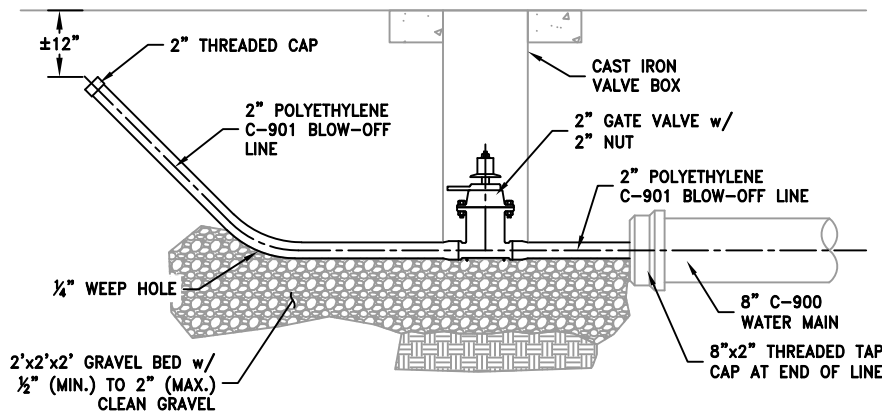
1. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE $\frac{1}{4}$ " BELOW FINAL STREET GRADE.
2. IF TOP OF VALVE NUT IS MORE THAN 4'0" DEEP, THEN VALVE STEM EXTENSION IS REQUIRED. SEE VALVE STEM EXTENSION DETAIL W1.2.



NOTES:

1. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE $\frac{1}{4}$ " BELOW FINAL STREET GRADE.

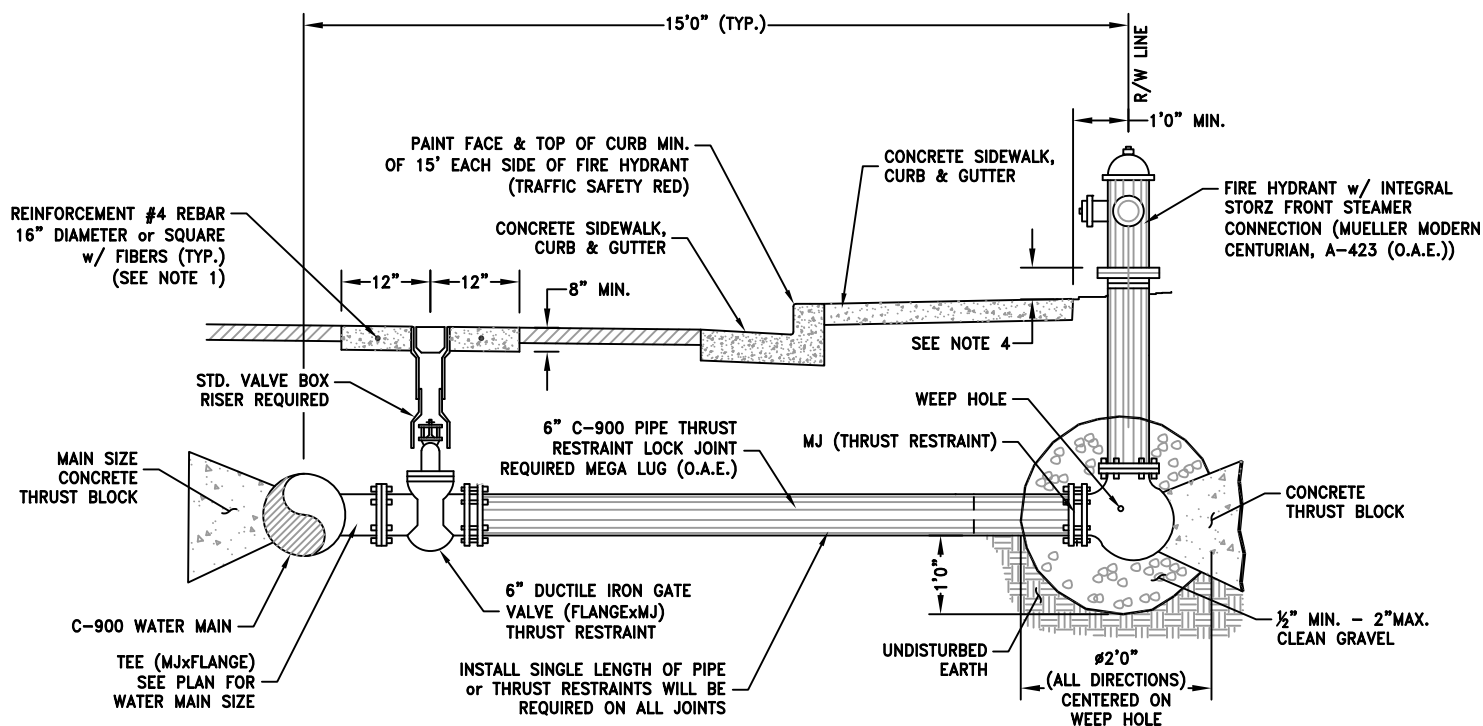
VALVE EXTENSION DETAIL
N.T.S.



TEMPORARY WATER LINE BLOW-OFF DETAIL
N.T.S.

NOTES:

1. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE 1/4" BELOW FINAL STREET GRADE.
2. WATER LINES MAY BE BLOWN OFF THRU FIRE HYDRANTS.
3. FIRE HYDRANTS TO HAVE A MINIMUM 3'0" BURY w/ EXTENSIONS AS REQUIRED.
4. FIRE HYDRANT SHALL BE 3" MIN. & 6" MAX. MEASURED ANYWHERE ON THE FLANGE TO THE TOP BACK OF SIDEWALK.
5. MECHANICAL JOINTS AT ALL FITTINGS (IE: BENDS, TEES, CROSSES & VALVES) SHALL HAVE THRUST BLOCKS.
6. MECHANICAL JOINTS AT ALL FITTINGS SHALL BE WRAPPED WITH TWO LAYERS OF 6mm POLYETHYLENE SO THAT ALL BOLTS, NUTS & CONNECTIONS ARE COVERED. POLYETHYLENE TO BE PULLED UP OVER BONNET OF VALVE TO COVER BOLTS. DUCT TAPE or WIRE TO BE USED TO SECURE PLASTIC WRAPPING IN PLACE.



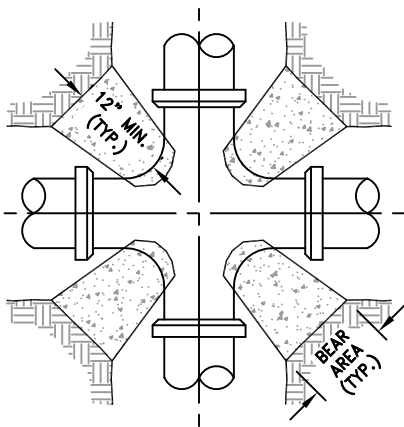


FIGURE 1
CROSS

REQUIRED ONLY IF ANY
LENGTH OF PIPE LEG IS
LESS THAN 60'0" LONG.

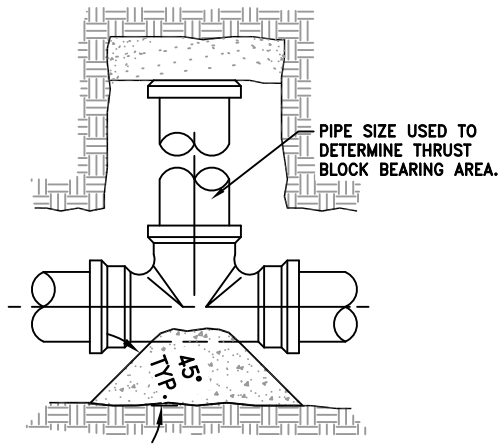


FIGURE 2
TEE, PLUG or CAP

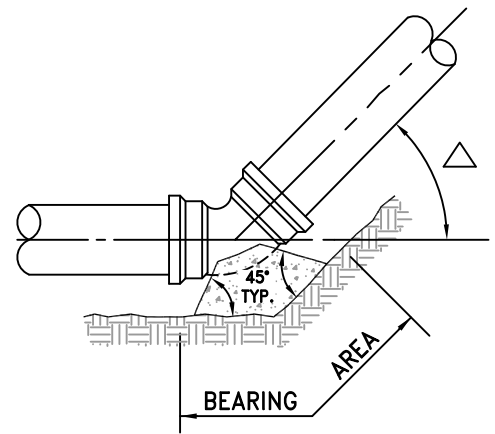


FIGURE 3
HORIZONTAL or UPWARD
VERTICAL BEND

NOTES:

1. ALL FITTINGS & EXPOSED REBAR SHALL BE WRAPPED WITH TWO LAYERS OF 6 MIL. POLYETHYLENE SO THAT ALL BOLTS, NUTS & CONNECTIONS ARE COVERED. POLYETHYLENE TO BE PULLED UP OVER BONNET OF VALVE TO COVER BOLTS. DUCT TAPE or WIRE TO BE USED TO SECURE PLASTIC WRAPPING IN PLACE.
2. ALL CONCRETE SHALL BE CLASS C 3000 P.S.I. MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. TABLE DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
5. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.
6. KEEP CONCRETE AWAY FROM FLANGE BOLTS AND FITTINGS.
7. 90° ELBOWS IN WATER MAINS ARE ONLY ALLOWED AS APPROVED BY THE WATER SUPERINTENDENT.
8. THRUST BLOCK BEARING AREA BASED ON LARGEST PIPE I.D. THAT THRUST BLOCK IS SUPPORTING.
9. MECHANICAL JOINTS AT ALL FITTINGS (IE: BENDS, TEES, CROSSES & VALVES) SHALL HAVE THRUST BLOCKS.

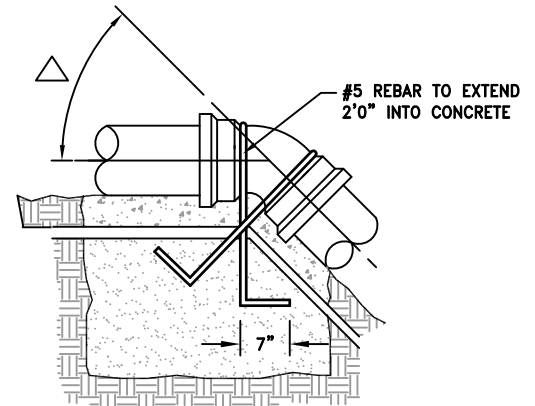
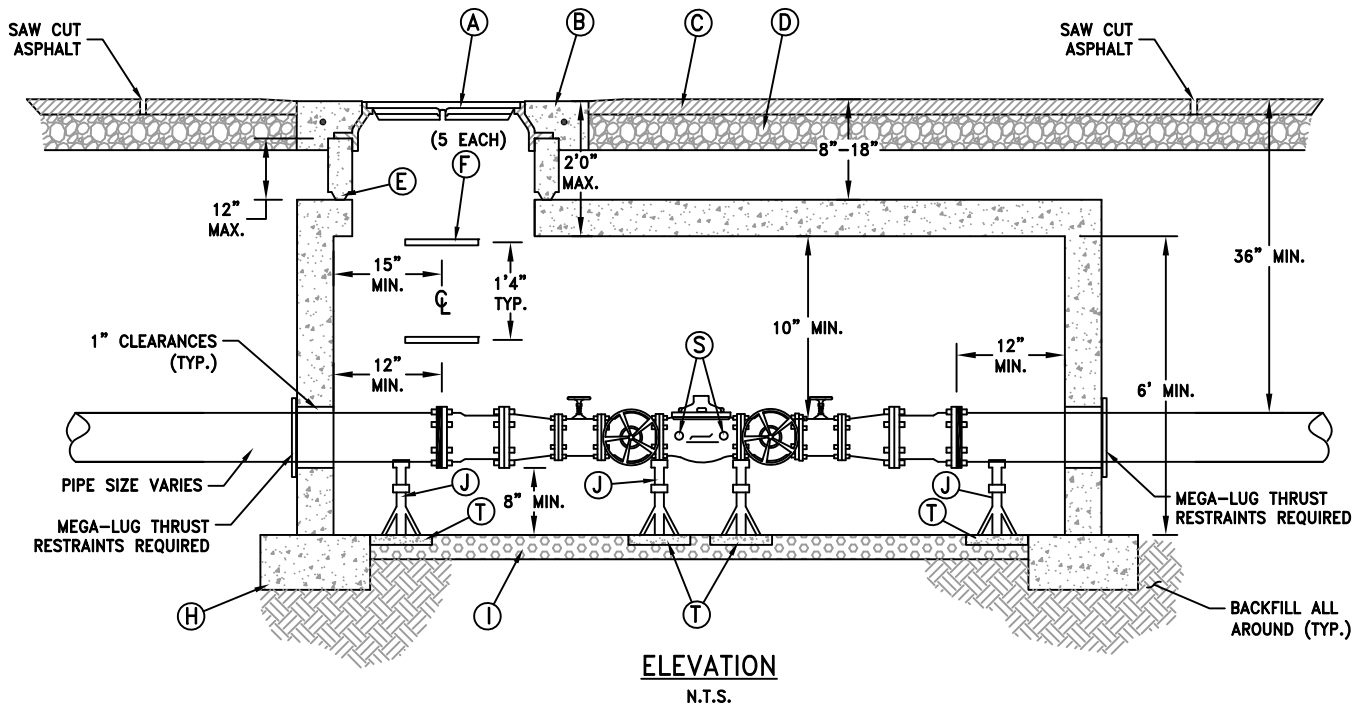
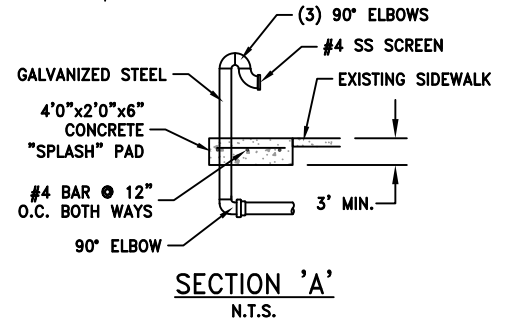
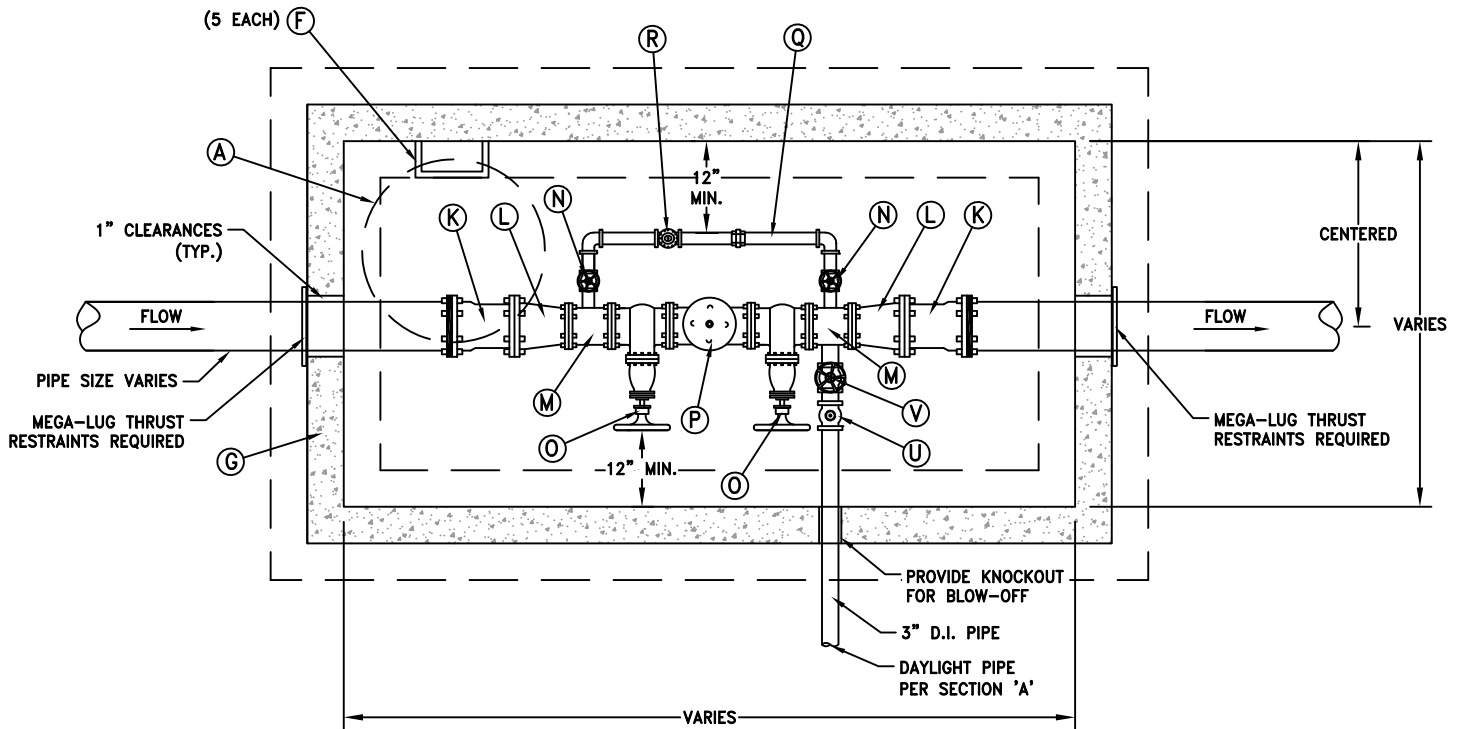


FIGURE 4
DOWNWARD VERTICAL BEND

PIPE I.D.	BEARING AREA, SQUARE FEET						VOLUME OF CONC. CU.YD.		
	FIGURE 1	FIGURE 2	FIGURE 3, △				FIGURE 4, △		
			90°	45°	22-1/2°	11-1/4°	45°	22-1/2°	11-1/4°
4"	2	2	2	1	1	1	1.0	.5	.5
6"	2	3	3	2	1	1	1.5	1.0	.5
8"	2	5	6	3	2	1	2.0	1.0	.5
10"	3	7	10	5	3	1	4.0	2.0	1.0
12"	3	10	14	8	4	2			
14"	4	14	20	10	5	3			
16"	4	20	24	12	7	4			
18"	5	24	30	16	10	5			
20"	5	28	40	20	12	6			



LEGEND

NO.	ITEM	DESCRIPTION
(A)	MANHOLE RING AND COVER (RIBLESS)	D&L A-1180 O.A.E.
(B)	4'0" SQUARE x 8" THICK CONCRETE COLLAR	w/ 40" SQUARE #4 BARS & FIBERS
(C)	3" ASPHALT MAT	
(D)	8" COMPACTED UNTREATED BASE	
(E)	GRADE RING(S)	MUST BE SEALED
(F)	MANHOLE STEP	(M.A. INDUSTRIES INC. O.A.E.)
(G)	CONCRETE VAULT TOP	AMCOR UV6127T O.A.E.
(H)	9"x18" FOOTING w/ (3) #4 BARS	
(I)	4" THICK DRAIN GRAVEL	
(J)	(4) LEVELING JACKS (LENGTH VARIES)	SLIDEWINDER PART #23535 BY BARKER MANUF. CO.
(K)	X" M.J. X FLANGE ADAPTOR	CEMENT LINED
(L)	X"x6" FLANGED REDUCER (IF REQ'D)	CEMENT LINED
(M)	6" FLANGED STEEL SPOOL WITH 2" OUTLET	EPOXY COATED AND LINED
(N)	2" GATE VALVE WITH HANDWHEEL	
(O)	6" GATE VALVE WITH HANDWHEEL	NON-RISING STEM
(P)	6" PRESSURE REDUCING VALVE	AWWA APPROVED (WATTS, O.A.E.)
(Q)	2" K-COPPER PIPE AND FITTINGS AS SHOWN	
(R)	2" PRESSURE REDUCING VALVE	AWWA APPROVED (WATTS, O.A.E.)
(S)	¾" TAPS w/ PRESSURE GUAGE	2½", 0-300 PSI, GLYCERIN FILLED
(T)	12"x12"x2" CONCRETE BLOCK	
(U)	BLOW-OFF PRV	AWWA APPROVED (WATTS, O.A.E.)
(V)	3" GATE VALVE w/ HANDWHEEL	

NOTES:

1. UNLESS OTHERWISE SHOWN, ALL MATERIALS PER ENOCH CITY ENGINEERING STANDARDS.
2. CONCRETE VAULT LENGTH AND WIDTH SHALL BE SUFFICIENT TO CONTAIN ALL FITTINGS AND MAINTAIN OPERATING CLEARANCE FROM WALLS.
3. VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
4. ALL PIPE MATERIALS AND FITTINGS MUST BE RATED FOR WATER SYSTEM PRESSURE.



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6" PRESSURE
REDUCING VALVE
w/ 2" BYPASS

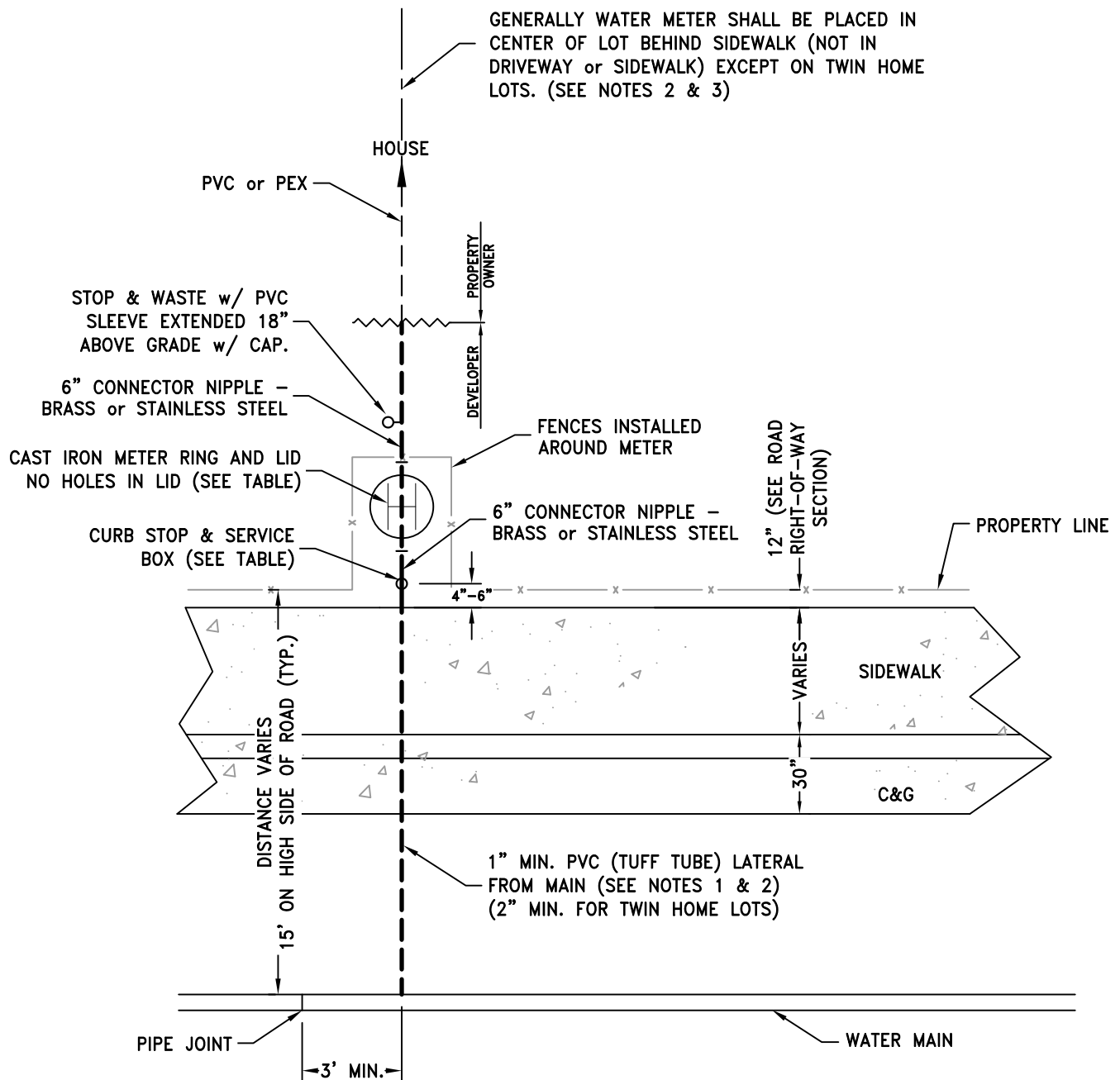
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N.T.S.
DATE:
DEC. 2022

DETAIL No.:

W4.0B

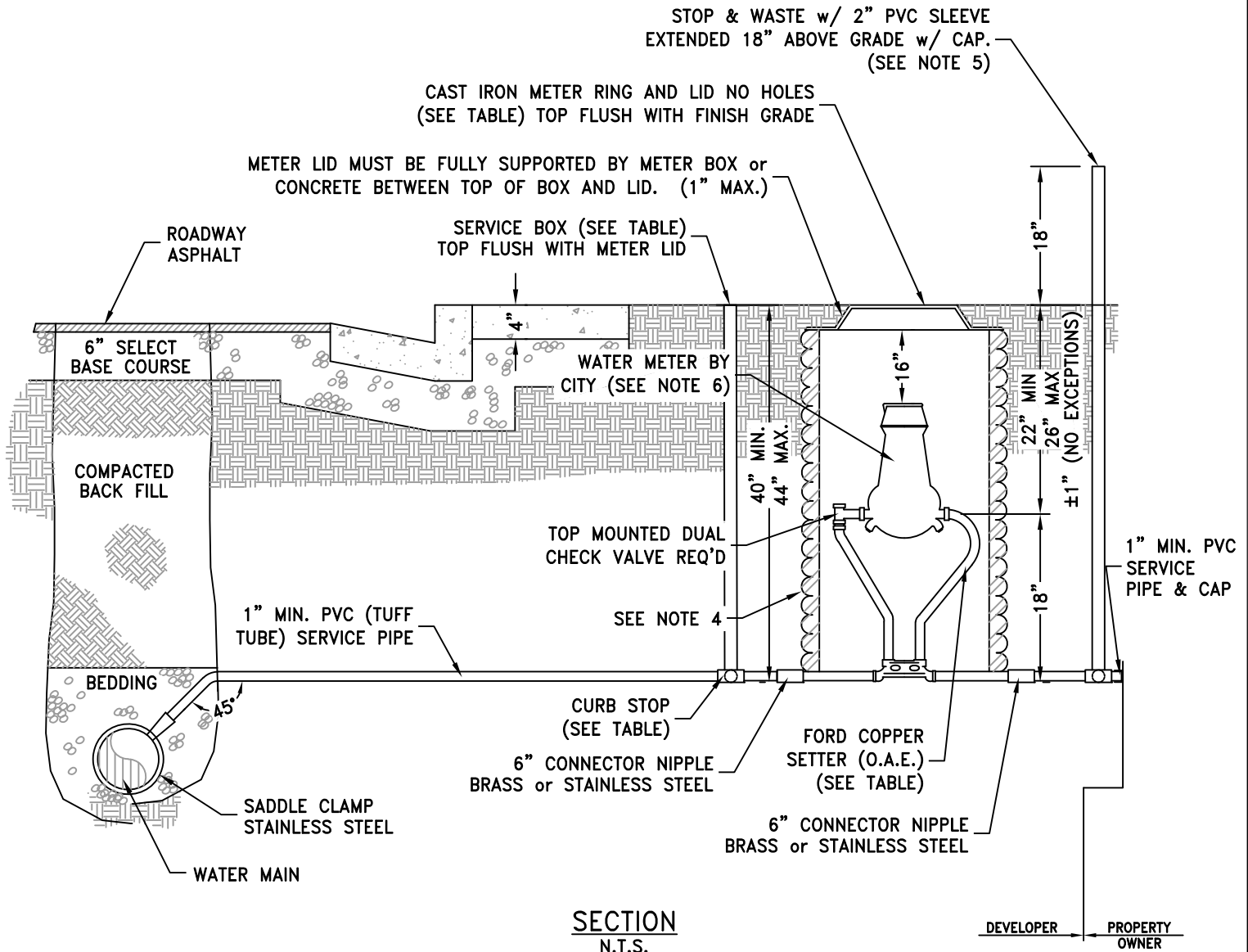
SHEET:
2 of 2

METER SIZE	BOX DIAMETER	BOX COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
1"	18"	WHITE	L-2241 (SEE NOTE 6)	VBHC 74-18W-44-44-G or Q	FORD MODEL B11-444 (O.A.E.) 1" BALL VALVE 1" FM I.P.T. x 1" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



PLAN
N.T.S.

METER SIZE	BOX DIAMETER	BOX COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
1"	18"	WHITE	L-2241 (SEE NOTE 6)	VBHC 74-18W-44-44-G or Q	FORD MODEL B11-444 (O.A.E.) 1" BALL VALVE 1" FM I.P.T. x 1" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



NOTES:

1. ¾" LATERAL ALLOWED ONLY BY APPROVAL OF THE CITY.
2. ON TWIN HOME LOTS THE WATER METERS SHALL BE PLACED 10' FROM EACH SIDE OF LOT LINE.
3. ON INDUSTRIAL ZONED ROADS WHERE SIDEWALKS ARE NOT REQUIRED OR INSTALLED THE WATER METERS SHALL BE INSTALLED BEHIND THE CURB & GUTTER.
4. METER BOX HDP A.D.S. N-12 (O.A.E.) CORRUGATED POLYETHYLENE PIPE CORRUGATED EXTERIOR/ SMOOTH INTERIOR (SEE TABLE). BOX TO BE A CONTINUOUS PIECE OF PIPE WITH NO EXTENSIONS.
5. STOP & WASTE NOT REQUIRED TO BE INSTALLED IF SECONDARY WATER IS AVAILABLE.
6. USE D&L B-5018 FOR METER LIDS THAT WILL BE INSET IN CONCRETE.



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1" WATER METER

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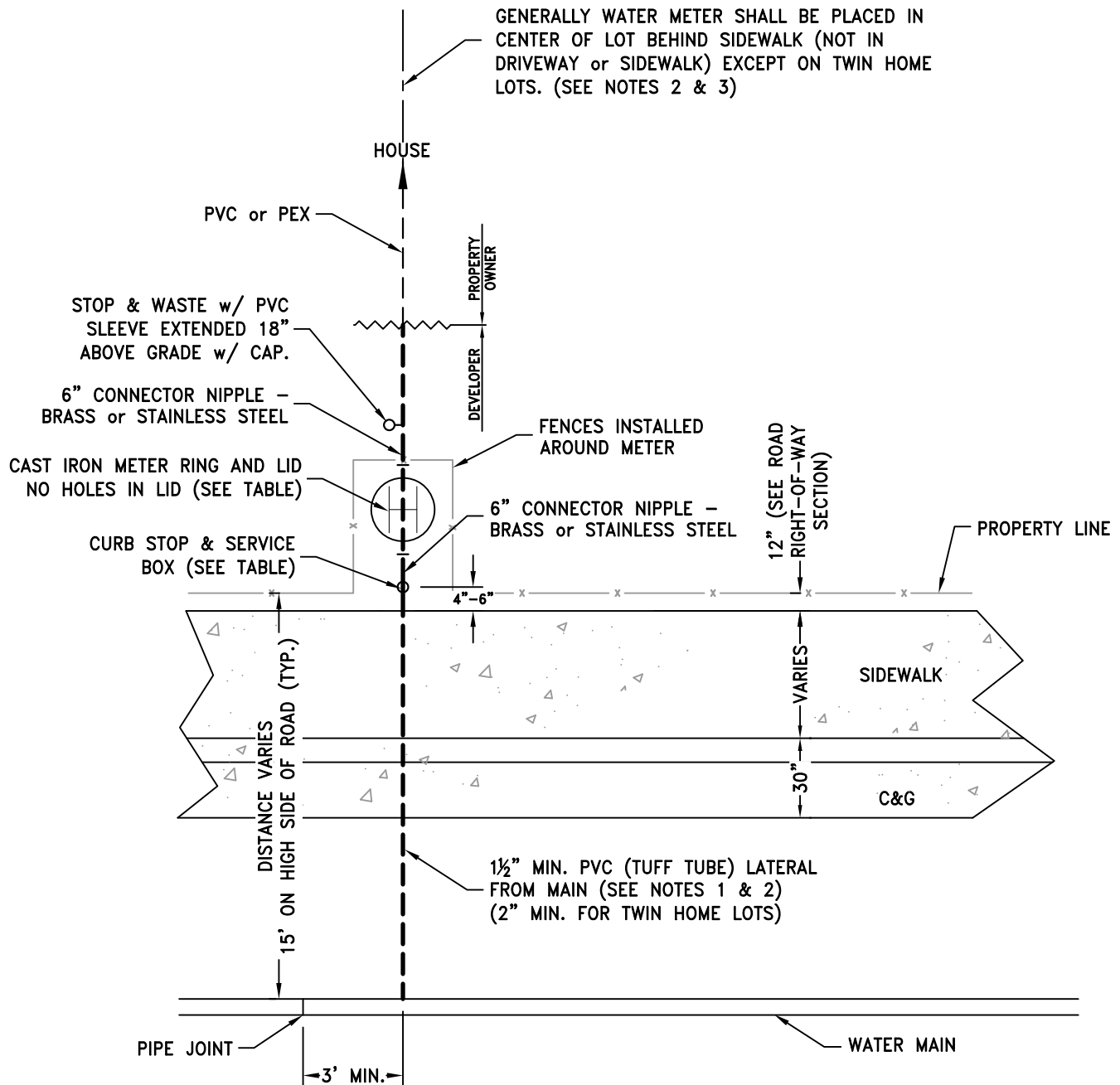
DATE:
MAY 2023

DETAIL No.:

W5.1B

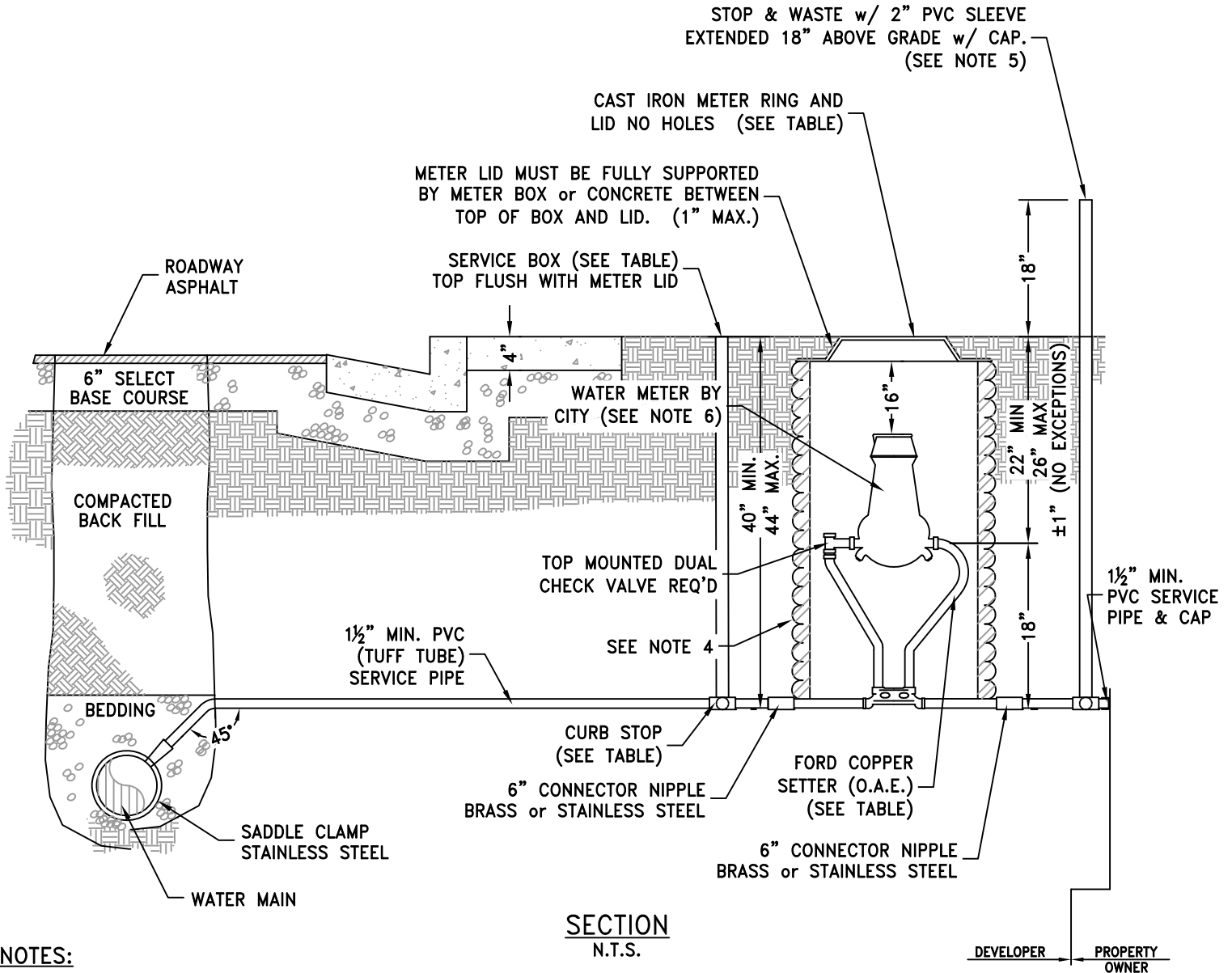
SHEET:
2 of 2

METER SIZE	BARREL DIAMETER	BARREL COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
1½"	24" Ø	WHITE	L-2241 (SEE NOTE 6)	VBHH 76-18-44-66-G or Q	FORD MODEL B11-444 (O.A.E.) 1½" BALL VALVE 1½" FM I.P.T. x 1½" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



PLAN
N.T.S.

METER SIZE	BARREL DIAMETER	BARREL COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
1½"	24"Ø	WHITE	L-2241 (SEE NOTE 6)	VBHH 76-18-44-66-G or Q	FORD MODEL B11-444 (O.A.E.) 1½" BALL VALVE 1½" FM I.P.T. x 1½" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



NOTES:

- ¾" LATERAL ALLOWED ONLY BY APPROVAL OF THE CITY.
- ON TWIN HOME LOTS THE WATER METERS SHALL BE PLACED 10' FROM EACH SIDE OF LOT LINE.
- ON INDUSTRIAL ZONED ROADS WHERE SIDEWALKS ARE NOT REQUIRED OR INSTALLED THE WATER METERS SHALL BE INSTALLED BEHIND THE CURB & GUTTER.
- METER BOX HDP A.D.S. N-12 (O.A.E.) CORRUGATED POLYETHYLENE PIPE CORRUGATED EXTERIOR/ SMOOTH INTERIOR (SEE TABLE). BOX TO BE A CONTINUOUS PIECE OF PIPE WITH NO EXTENSIONS.
- STOP & WASTE NOT REQUIRED TO BE INSTALLED IF SECONDARY WATER IS AVAILABLE.
- USE D&L B-5020 FOR METER BARRELS THAT WILL BE INSET IN CONCRETE.



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1½" WATER METER

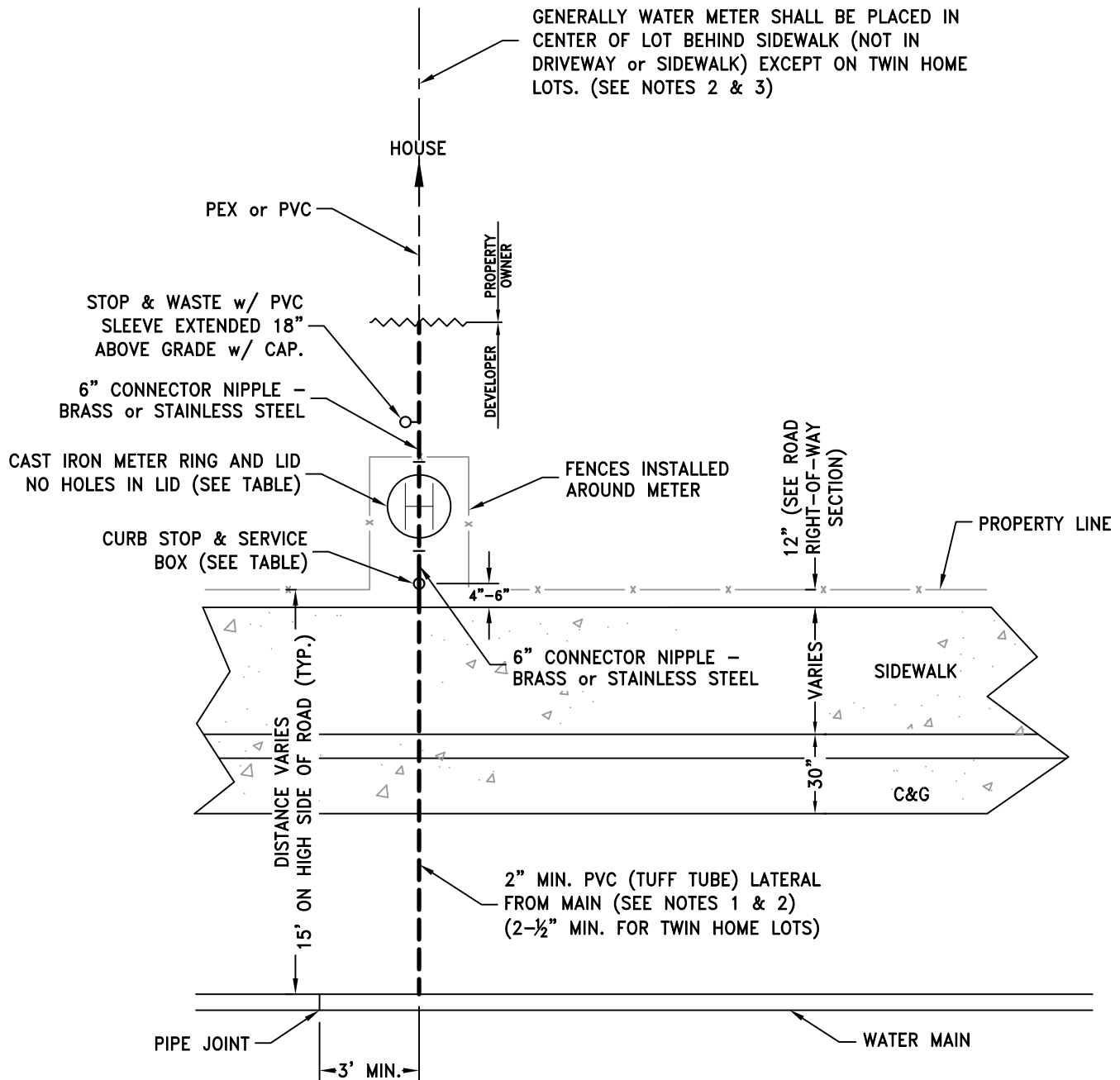
SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

W5.2B

SHEET:
2 of 2

METER SIZE	BARREL DIAMETER	BARREL COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
2"	30"Ø	BLACK	L-2241 (SEE NOTE 6)	VBHH 77-18-44-77-G or Q	FORD MODEL B11-444 (O.A.E.) 1½" BALL VALVE 1½" FM I.P.T. x 1½" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



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2" WATER METER

SCALE:
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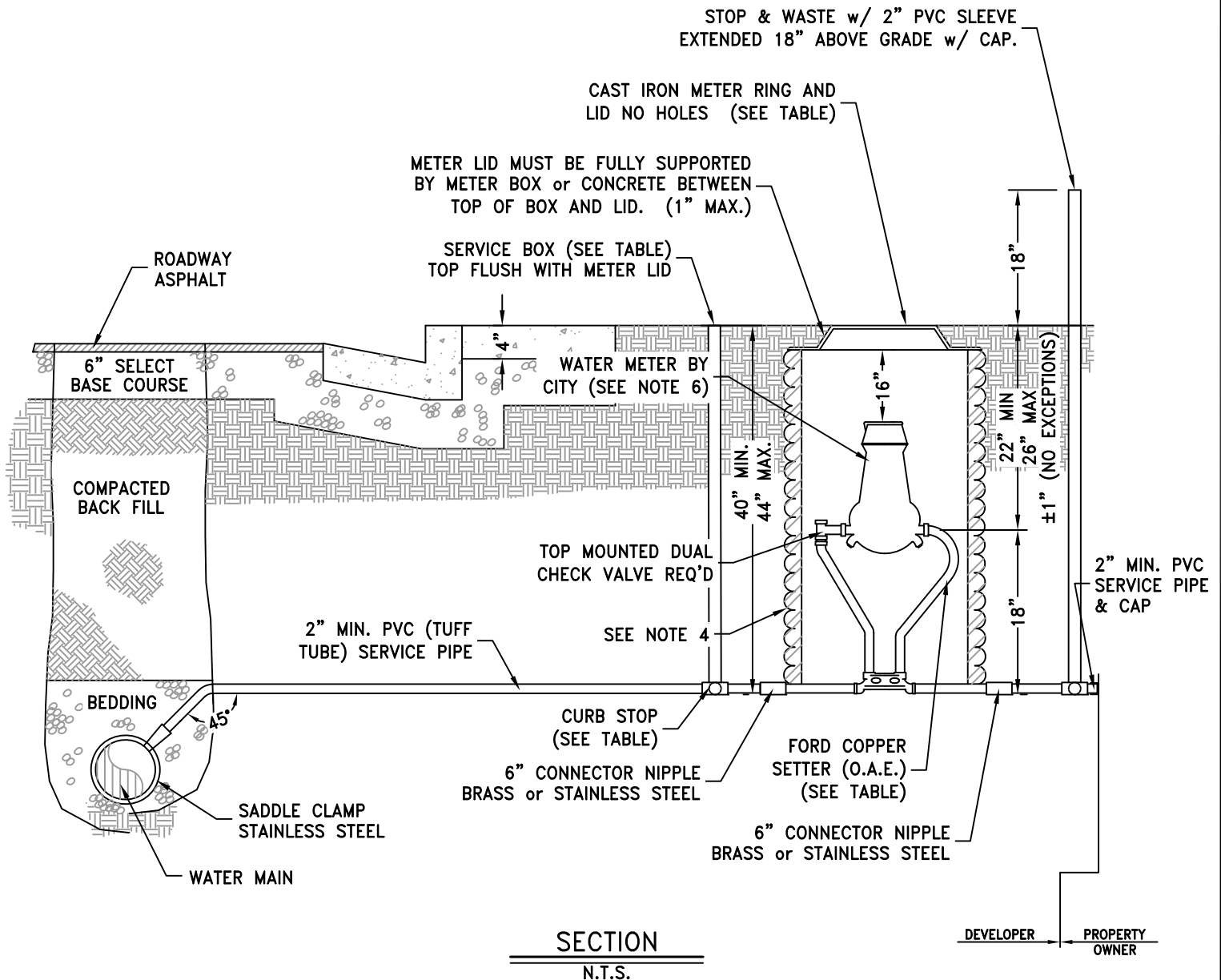
DATE:
DEC. 2022

DETAIL No.:

W5.3A

SHEET:
1 of 2

METER SIZE	BARREL DIAMETER	BARREL COLOR	D&L RING & COVER, OAE	FORD SETTER, OAE	CURB STOP	SERVICE BOX
2"	30"Ø	BLACK	L-2241 (SEE NOTE 6)	VBHH 77-18-44-77-G or Q	FORD MODEL B11-444 (O.A.E.) 1½" BALL VALVE 1½" FM I.P.T. x 1½" FM I.P.T.	FORD-EA2 40-40-30R (O.A.E.)



NOTES:

- ¾" LATERAL ALLOWED ONLY BY APPROVAL OF THE CITY.
- ON TWIN HOME LOTS THE WATER METERS SHALL BE PLACED 10' FROM EACH SIDE OF LOT LINE.
- ON INDUSTRIAL ZONED ROADS WHERE SIDEWALKS ARE NOT REQUIRED OR INSTALLED THE WATER METERS SHALL BE INSTALLED BEHIND THE CURB & GUTTER.
- METER BOX HDP A.D.S. N-12 (O.A.E.) CORRUGATED POLYETHYLENE PIPE CORRUGATED EXTERIOR/ SMOOTH INTERIOR (SEE TABLE). BOX TO BE A CONTINUOUS PIECE OF PIPE WITH NO EXTENSIONS.
- STOP & WASTE NOT REQUIRED TO BE INSTALLED IF SECONDARY WATER IS AVAILABLE.
- USE D&L B-5024 FOR METER BARRELS THAT WILL BE INSET IN CONCRETE.



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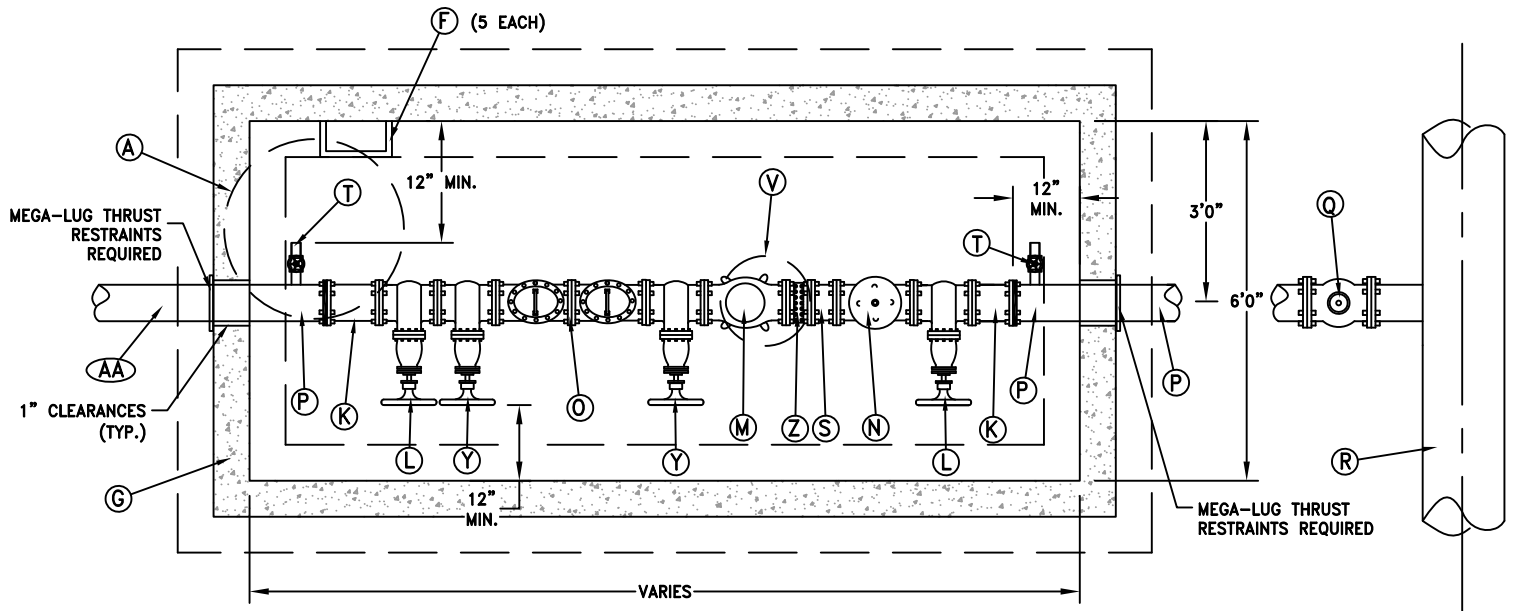
2" WATER METER

SCALE:
N.T.S.
DATE:
MAY 2023

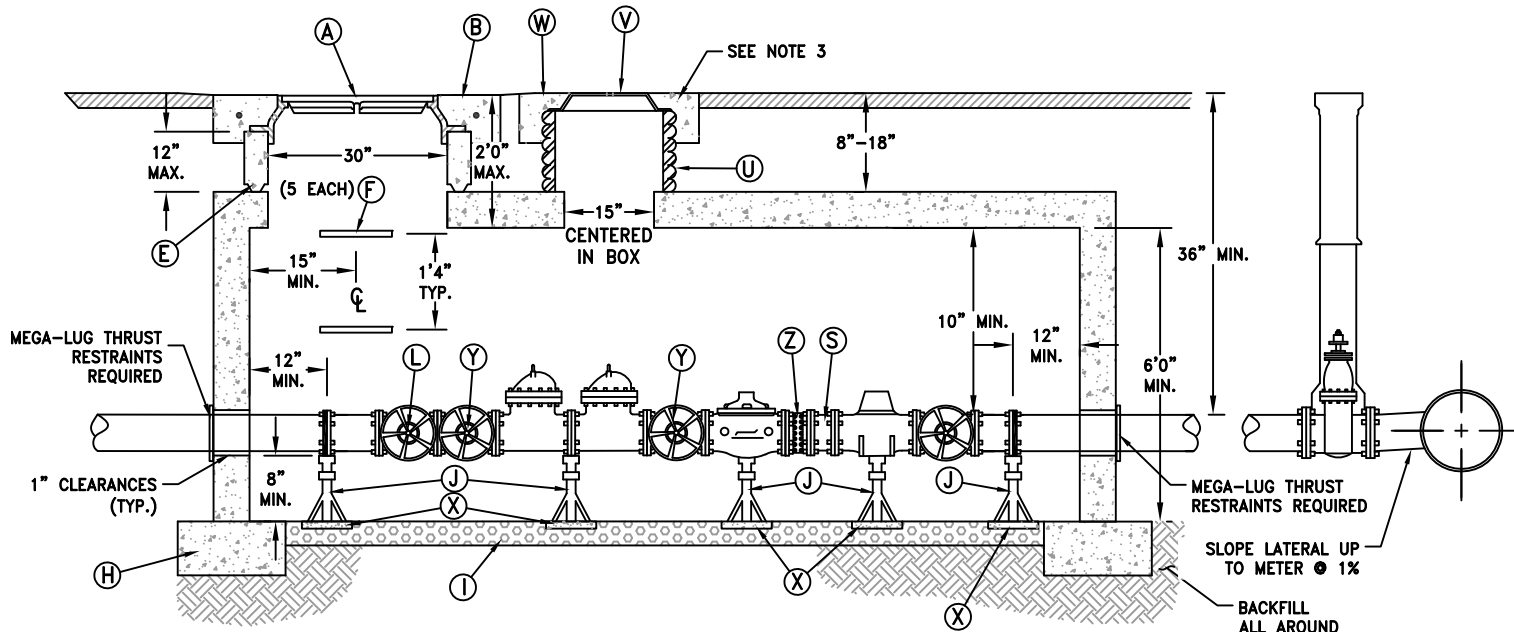
DETAIL No.:

W5.3B

SHEET:
2 of 2



PLAN
N.T.S.



ELEVATION
N.T.S.

LEGEND

NO.	ITEM	DESCRIPTION
(A)	MANHOLE RING AND COVER (RIBLESS)	D&L A-1180 O.A.E.
(B)	4'0" SQUARE x 8" THICK CONCRETE COLLAR	w/ 40" SQUARE #4 BARS & FIBERS
(C)	NOT USED	
(D)	NOT USED	
(E)	GRADE RING(S)	MUST BE SEALED
(F)	MANHOLE STEP	(M.A. INDUSTRIES INC. O.A.E.)
(G)	CONCRETE VAULT TOP	AMCOR UV6127T O.A.E.
(H)	9"x18" FOOTING w/ (3) #4 BARS	
(I)	4" THICK DRAIN GRAVEL	
(J)	(5) LEVELING JACKS (LENGTH VARIES)	SLIDEWINDER PART #23535 BY BARKER MANUF. CO.
(K)	6" MIN. FLANGE ADAPTOR	CEMENT LINED
(L)	GATE VALVE WITH HANDWHEEL	NON-RISING STEM
(M)	FLOW METER (PURCHASED FROM CITY)	MACH 10
(N)	PRESSURE REDUCING VALVE (IF REQ'D)	AWWA APPROVED
(O)	DOUBLE CHECK DETECTOR VALVE (DCDA)	AWWA APPROVED
(P)	DUCTILE IRON PIPE or COPPER PIPE	CEMENT LINED OR COPPER
(Q)	GATE VALVE WITH BOX	SEE STANDARD DETAIL W1.0
(R)	FIRE LOOP or CITY WATER MAIN	
(S)	FLANGED SPOOL 12" LONG	
(T)	1½" PIPE TAP WITH GATE VALVE AND 4" NIPPLE	
(U)	18" DIA. HDPE PIPE	PER PIPE SPEC
(V)	RING & LID w/ 2" PUNCHOUT	D&L-2241 O.A.E.
(W)	30"x30"x8" THICK CONCRETE COLLAR	
(X)	12"x12"x2" CONCRETE BLOCK	
(Y)	BACKFLOW ASSEMBLY VALVE	
(Z)	STRAINER (IF REQUIRED)	PURCHASED FROM CITY
(AA)	DUCTILE IRON PIPE or COPPER PIPE (TO 10'0" OUTSIDE OF VAULT)	

NOTES:

- UNLESS OTHERWISE SHOWN ALL MATERIALS PER ENOCH CITY ENGINEERING STANDARDS.
- CONCRETE VAULT LENGTH & WIDTH SHALL BE SUFFICIENT TO CONTAIN ALL FITTINGS AND MAINTAIN INDICATED CLEARANCE FROM WALLS.
- WATER METER LIDS & COVERS SHALL ONLY BE INSTALLED IN LANDSCAPED AREAS UNLESS APPROVED BY WATER SUPERINTENDENT.
- NOT ALLOWED ON PRIVATE SYSTEMS WITH FIRE HYDRANTS.
- VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
- PRV IS REQUIRED FOR 80 PSI PRESSURE OR GREATER.
- STRAINER IS REQUIRED IF A PRV IS REQUIRED.
- ALL PIPE MATERIALS AND FITTINGS MUST BE RATED FOR WATER SYSTEM PRESSURE.
- ONLY NFPA 13R FIRE SPRINKLER SYSTEMS ARE ALLOWED WITH THIS DETAIL.
- FIRE SPRINKLER SYSTEMS SHOULD BE DESIGNED ACCORDING TO REDUCED PRESSURE WHEN USING A PRV IN THE VAULT.



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3" - 4" WATER METER
(COMBINED CULINARY &
FIRE SPRINKLER FLOWS)

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

W5.4B

SHEET:
2 of 2

LEGEND

NO.	ITEM	DESCRIPTION
(A)	MANHOLE RING AND COVER (RIBLESS)	D&L A-1180 O.A.E.
(B)	4'0" SQUARE x 8" THICK CONCRETE COLLAR	w/ 40" SQUARE #4 BARS & FIBERS
(C)	PIPE MATERIAL PER PLUMBING CODE	
(D)	NOT USED	
(E)	GRADE RING(S)	MUST BE SEALED
(F)	MANHOLE STEP	(M.A. INDUSTRIES INC. O.A.E.)
(G)	CONCRETE VAULT TOP	AMCOR UV6127T O.A.E.
(H)	9"x18" FOOTING w/ (3) #4 BARS	
(I)	4" THICK DRAIN GRAVEL	
(J)	(2) LEVELING JACKS (LENGTH VARIES)	SLIDEWINDER PART #23535 BY BARKER MANUF. CO.
(K)	6" MIN. FLANGE ADAPTOR	CEMENT LINED
(L)	X"x6" FLANGED REDUCER (IF REQ'D)	CEMENT LINED
(M)	6" FLANGED STEEL SPOOL WITH 2" OUTLET	EPOXY COATED AND LINED
(N)	2" GATE VALVE WITH 4" NIPPLE	
(O)	6" GATE VALVE WITH HANDWHEEL	NON-RISING STEM
(P)	6" DOUBLE CHECK DETECTOR VALVE (DCDA)	AWWA APPROVED
(Q)	FLOW METER (PURCHASED FROM CITY)	
(R)	6" PRESSURE REDUCING VALVE (IF REQ'D)	AWWA APPROVED
(S)	6" MIN. D.I. PIPE	CEMENT LINED
(T)	CITY WATER MAIN	
(U)	GATE VALVE WITH BOX	SEE STANDARD DETAIL W1.0
(V)	6" FLANGED SPOOL 12" LONG	CEMENT LINED
(W)	18" DIA. HDPE PIPE	PER PIPE SPEC.
(X)	RING & LID w/ 2" PUNCHOUT	D&L-2241 O.A.E.
(Y)	30"x30"x8" THICK CONCRETE COLLAR	
(Z)	12"x12"x2" CONCRETE BLOCK	
(AA)	BACKFLOW ASSEMBLY VALVE	
(BB)	STRAINER (IF REQUIRED)	PURCHASED FROM CITY

NOTES:

- UNLESS OTHERWISE SHOWN ALL MATERIALS PER ENOCH CITY ENGINEERING STANDARDS.
- CONCRETE VAULT LENGTH & WIDTH SHALL BE SUFFICIENT TO CONTAIN ALL FITTINGS AND MAINTAIN INDICATED CLEARANCE FROM WALLS.
- WATER METER LIDS & COVERS SHALL ONLY BE INSTALLED IN LANDSCAPED AREAS UNLESS APPROVED BY WATER SUPERINTENDENT.
- NOT ALLOWED ON PRIVATE SYSTEMS WITH FIRE HYDRANTS.
- VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
- PRV IS REQUIRED FOR 80 PSI PRESSURE OR GREATER.
- STRAINER IS REQUIRED IF A PRV IS REQUIRED.
- ALL PIPE MATERIALS AND FITTINGS MUST BE RATED FOR WATER SYSTEM PRESSURE.
- ONLY NFPA 13R FIRE SPRINKLER SYSTEMS ARE ALLOWED WITH THIS DETAIL.
- FIRE SPRINKLER SYSTEMS SHOULD BE DESIGNED ACCORDING TO REDUCED PRESSURE WHEN USING A PRV IN THE VAULT.



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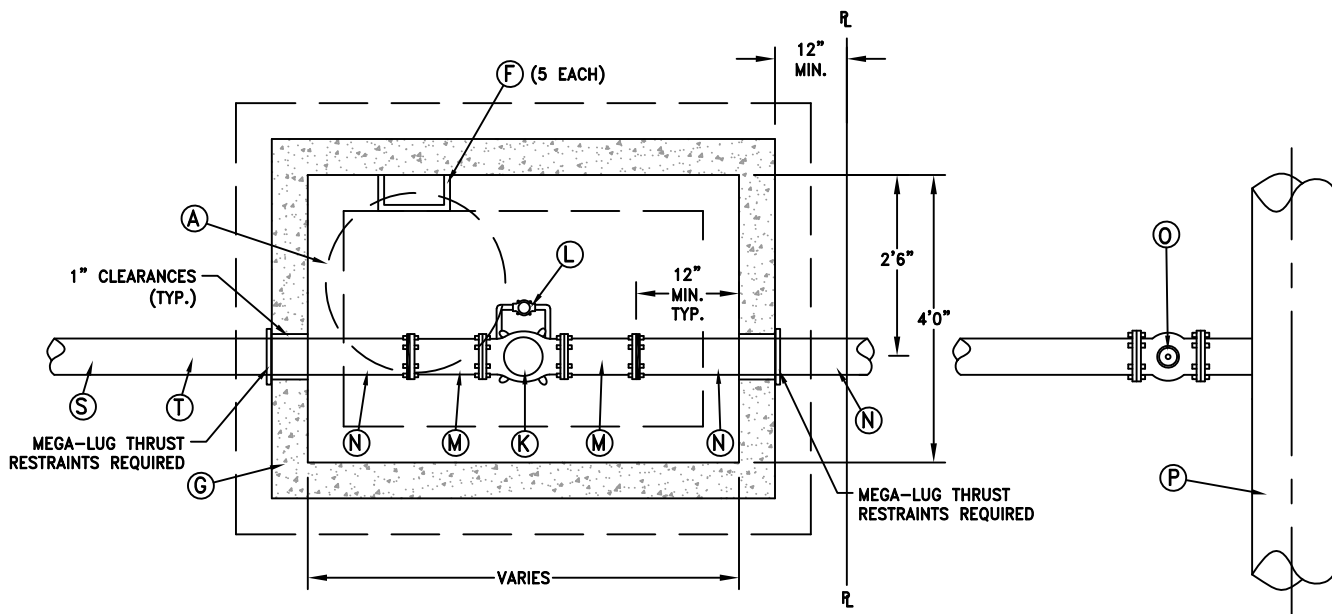
WATER METER w/ FIRE
FLOW(COMBINED CULINARY
& FIRE HYDRANT FLOWS)

SCALE:
N.T.S.
DATE:
DEC. 2022

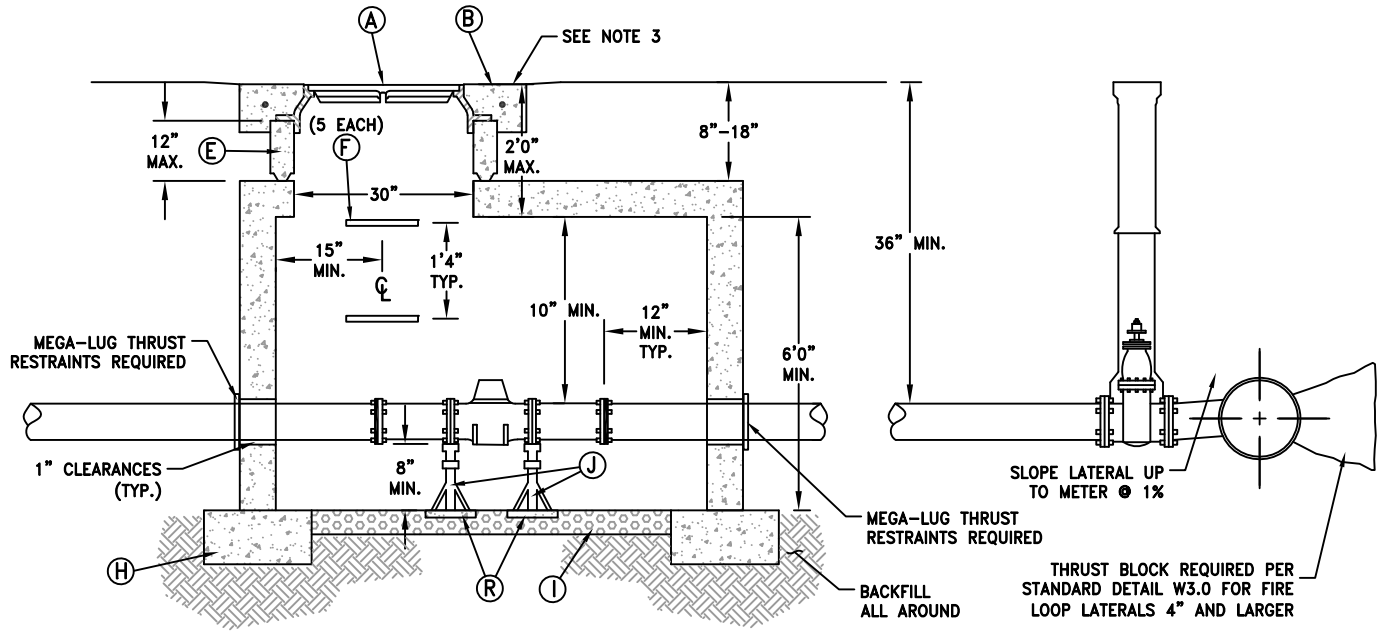
DETAIL No.:

W6.0B

SHEET:
2 of 2



PLAN
N.T.S.



ELEVATION
N.T.S.



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FIRE LOOP DETECTOR CHECK VALVE (FIRE FLOWS ONLY)

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

W7.0A

SHEET:
1 of 2

LEGEND

NO.	ITEM	DESCRIPTION
(A)	MANHOLE RING AND COVER (RIBLESS)	D&L A-1180 O.A.E.
(B)	4'0" SQUARE x 8" THICK CONCRETE COLLAR	w/ 40" SQUARE #4 BARS & FIBERS
(C)	NOT USED	
(D)	NOT USED	
(E)	GRADE RING(S)	MUST BE SEALED
(F)	MANHOLE STEP	(M.A. INDUSTRIES INC. O.A.E.)
(G)	CONCRETE VAULT TOP (4'0"x6'0")	AMCOR UV46T O.A.E.
(H)	9"x18" FOOTING w/ (3) #4 BARS	
(I)	4" THICK DRAIN GRAVEL	
(J)	(4) LEVELING JACKS (LENGTH VARIES)	SLIDEWINDER PART #23535 BY BARKER MANUF. CO.
(K)	SINGLE LEAK DETECTOR CHECK VALVE	WATTS SERIES SS07F O.A.E.
(L)	¾" BY-PASS KIT	WITH METER AND VALVES
(M)	FLANGE ADAPTER	CEMENT LINED
(N)	DUCTILE IRON PIPE	CEMENT LINED
(O)	GATE VALVE WITH BOX	
(P)	CITY WATER MAIN	
(Q)	NOT USED	
(R)	12"x12"x2" CONCRETE BLOCK	
(S)	PIPE MATERIAL TO BUILDING PER PLUMBING CODE	
(T)	DUCTILE IRON PIPE (TO 10' OUTSIDE OF VAULT)	

NOTES:

1. UNLESS OTHERWISE SHOWN ALL MATERIALS PER ENOCH CITY ENGINEERING STANDARDS.
2. CONCRETE VAULT LENGTH & WIDTH SHALL BE SUFFICIENT TO CONTAIN ALL FITTINGS AND MAINTAIN INDICATED CLEARANCE FROM WALLS.
3. WATER METER LIDS & COVERS SHALL ONLY BE INSTALLED IN LANDSCAPED AREAS UNLESS APPROVED BY WATER SUPERINTENDENT.
4. VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
5. NO CULINARY WATER CONNECTION TO FIRE SPRINKLER SUPPLY LINES.
6. ALL PIPE MATERIALS AND FITTINGS MUST BE RATED FOR WATER SYSTEM PRESSURE.



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FIRE LOOP DETECTOR
CHECK VALVE
(FIRE FLOWS ONLY)

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

W7.0B

SHEET:
2 of 2

LEGEND

NO.	ITEM	DESCRIPTION
(A)	MANHOLE RING AND COVER (RIBLESS)	D&L A-1180 O.A.E.
(B)	4'0" SQUARE x 8" THICK CONCRETE COLLAR	w/ 40" SQUARE #4 BARS & FIBERS
(C)	NOT USED	
(D)	NOT USED	
(E)	GRADE RING(S)	MUST BE SEALED
(F)	MANHOLE STEP	(M.A. INDUSTRIES INC. O.A.E.)
(G)	CONCRETE VAULT TOP	AMCOR or APPROVED EQUAL
(H)	9"x18" FOOTING w/ (3) #4 BARS	
(I)	4" THICK DRAIN GRAVEL	
(J)	(4) LEVELING JACKS (LENGTH VARIES)	SLIDEWINDER PART #23535 BY BARKER MANUF. CO.
(K)	FLANGE ADAPTOR	CEMENT LINED
(L)	GATE VALVE WITH HANDWHEEL	NON-RISING STEM
(M)	FLOW METER (PURCHASED FROM CITY)	MACH 10
(N)	PRESSURE REDUCING VALVE (IF REQ'D)	
(O)	NOT USED	
(P)	DUCTILE IRON PIPE (TO 10' OUTSIDE OF VAULT)	CEMENT LINED
(Q)	GATE VALVE WITH BOX	SEE STANDARD DETAIL W1.0
(R)	IRRIGATION MAIN	
(S)	FLANGED SPOOL 12" LONG	
(T)	PIPE TAP (SIZE VARIES) w/ GATE VALVE & 4" NIPPLE	
(U)	18" DIA. HDPE PIPE	PER PIPE SPEC.
(V)	RING & LID w/ 2" PUNCHOUT	D&L-2241 O.A.E.
(W)	30"x30"x8" THICK CONCRETE COLLAR	
(X)	12"x12"x2" CONCRETE BLOCK	
(Y)	STRAINER (IF REQUIRED)	PURCHASED FROM CITY
(Z)	DUCTILE IRON PIPE (TO 10' OUTSIDE OF VAULT)	

NOTES:

- UNLESS OTHERWISE SHOWN ALL MATERIALS PER ENOCH CITY ENGINEERING STANDARDS.
- CONCRETE VAULT LENGTH & WIDTH SHALL BE SUFFICIENT TO CONTAIN ALL FITTINGS AND MAINTAIN INDICATED CLEARANCE FROM WALLS.
- WATER METER LIDS & COVERS SHALL ONLY BE INSTALLED IN LANDSCAPED AREAS UNLESS APPROVED BY WATER SUPERINTENDENT.
- VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
- PRV IS REQUIRED FOR 80 PSI PRESSURE OR GREATER.
- STRAINER IS REQUIRED IF A PRV IS REQUIRED.
- ALL PIPE MATERIALS AND FITTINGS MUST BE RATED FOR WATER SYSTEM PRESSURE.



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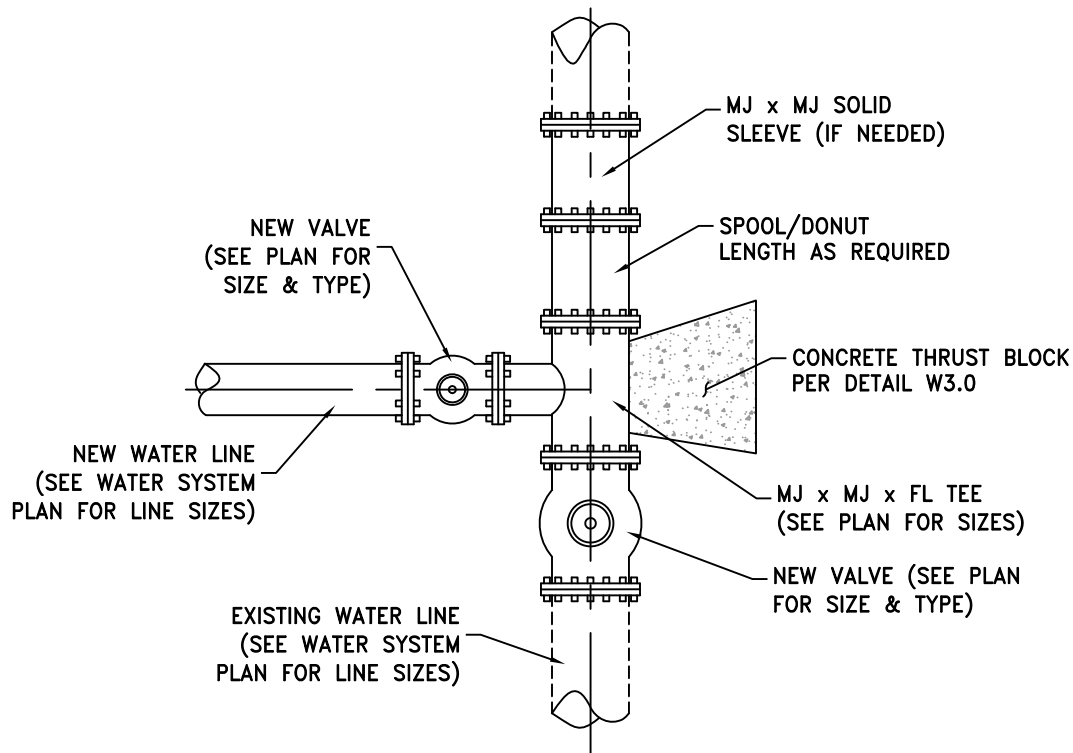
IRRIGATION METER

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

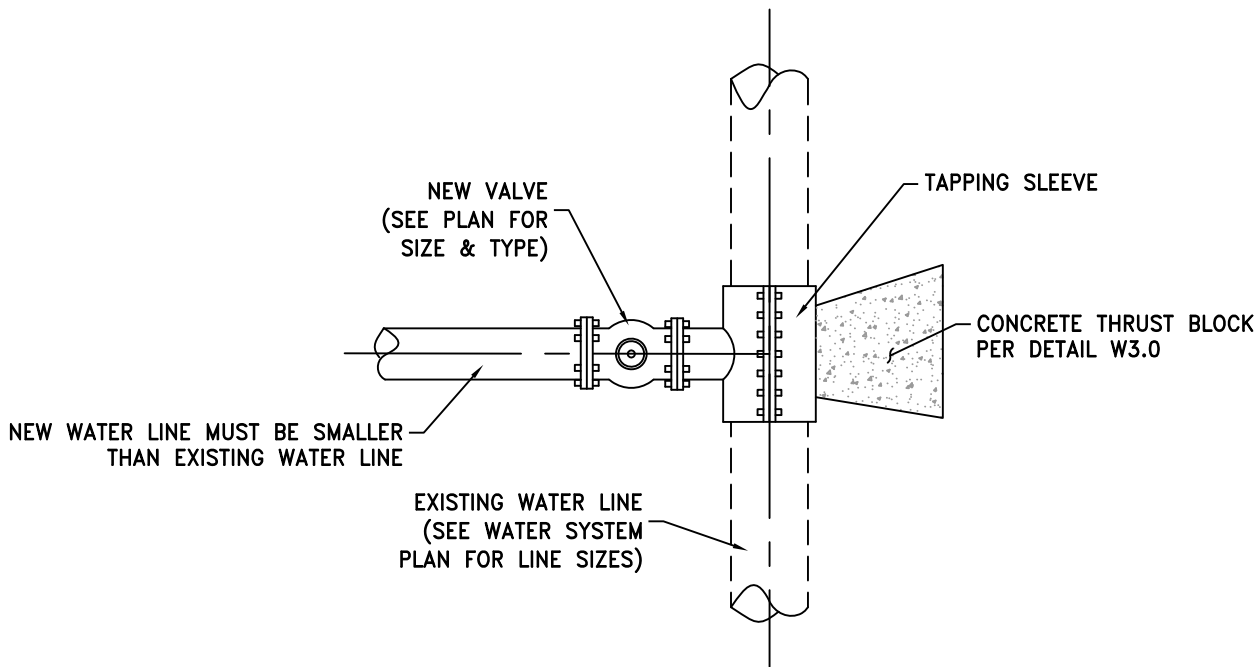
W8.0B

SHEET:
2 of 2



CUT-IN TEE CONNECTION

N.T.S.



TAPPED CONNECTION

N.T.S.

NOTES:

1. MECHANICAL JOINTS AT ALL FITTINGS SHALL BE WRAPPED WITH TWO LAYERS OF 6mm POLYETHYLENE SO THAT ALL BOLTS, NUTS & CONNECTIONS ARE COVERED. POLYETHYLENE TO BE PULLED UP OVER BONNET OF VALVE TO COVER BOLTS. DUCT TAPE or WIRE TO BE USED TO SECURE PLASTIC WRAPPING IN PLACE.



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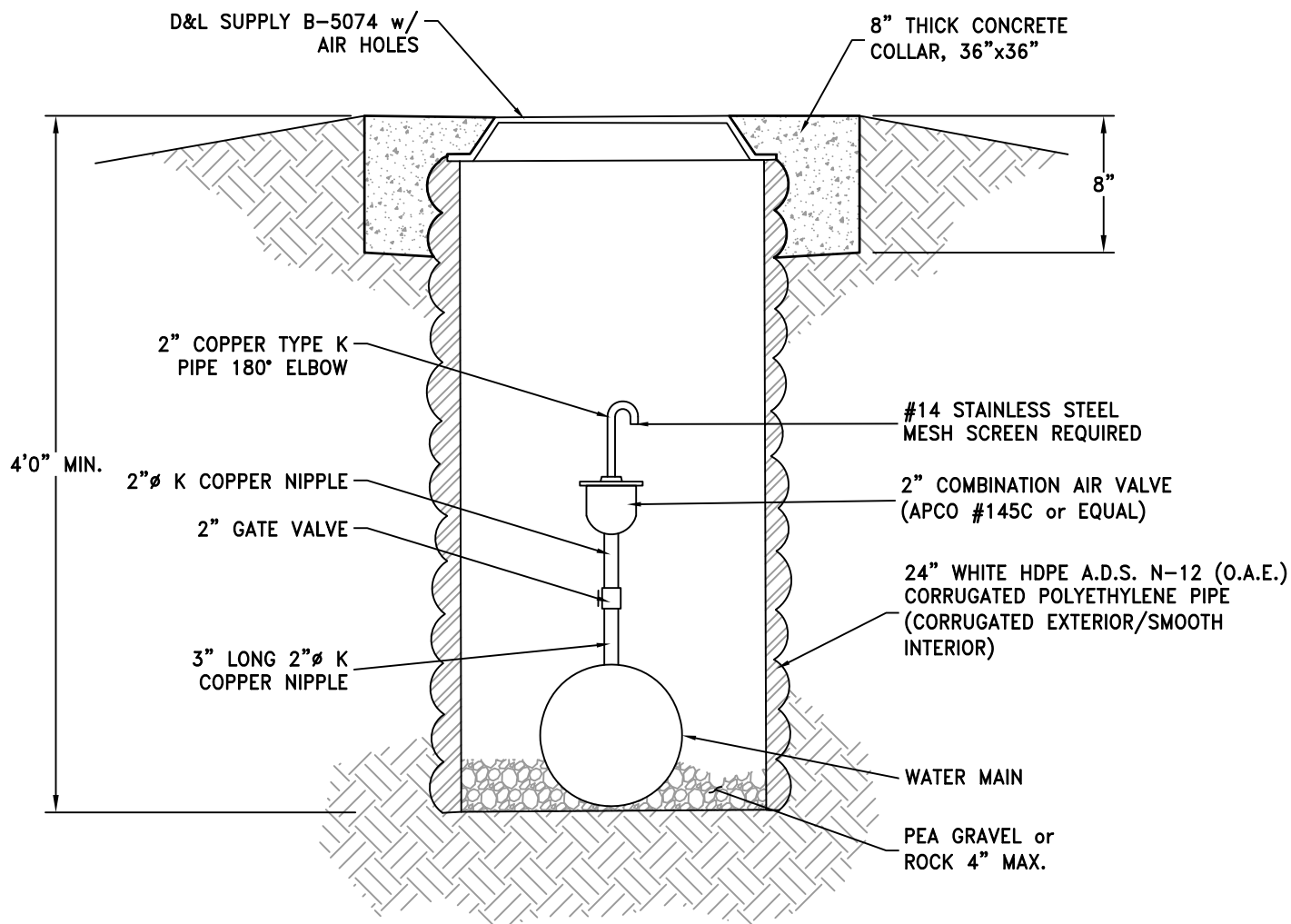
WATER MAIN TO
MAIN CONNECTION

SCALE:
N.T.S.
DATE:
DEC. 2022

DETAIL No.:

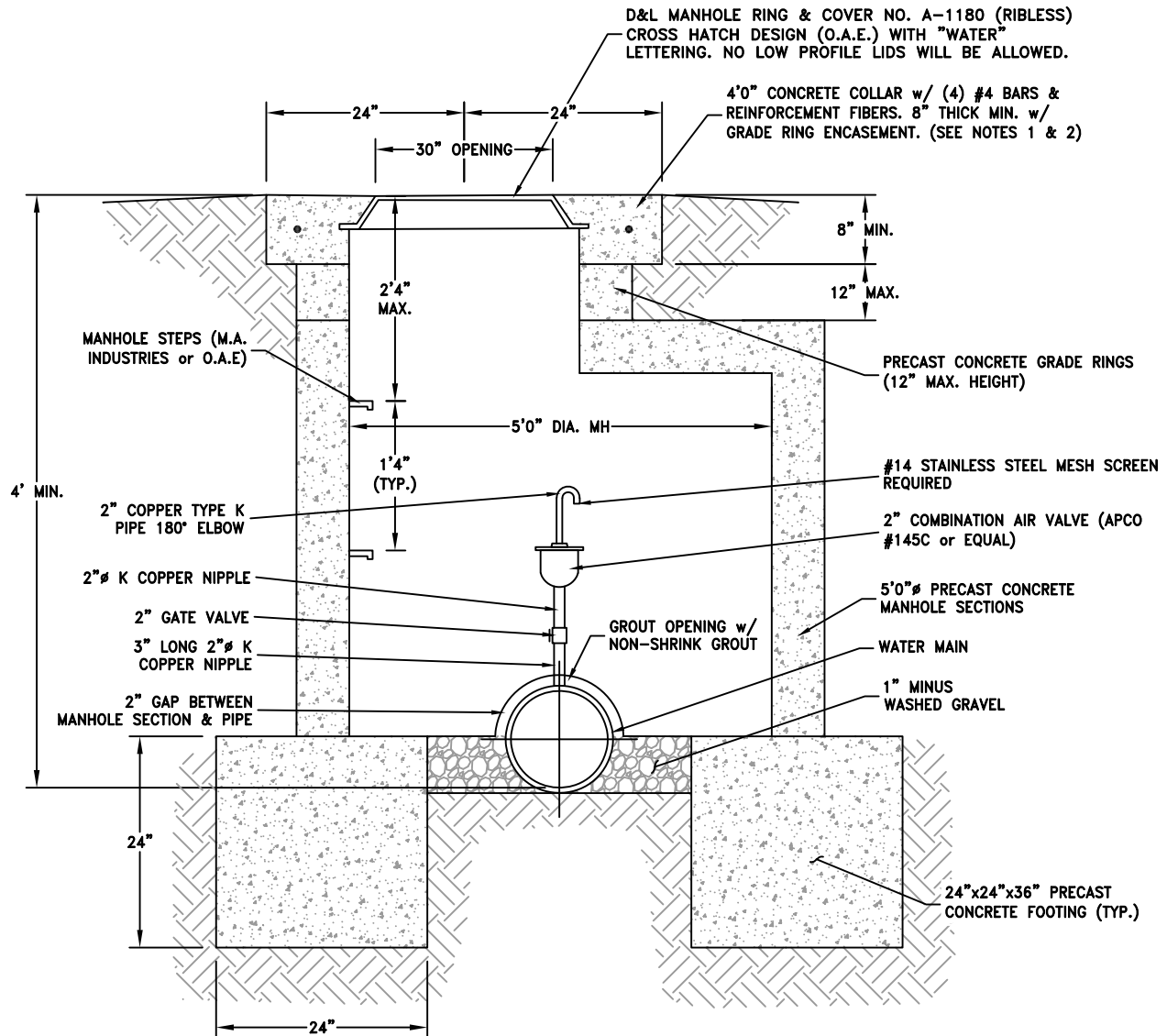
W9.0

SHEET:
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COMBINATION AIR VALVE DETAIL OUTSIDE ROADWAY

N.T.S.



COMBINATION AIR VALVE DETAIL IN ROADWAY

N.T.S.

NOTES:

1. MANHOLES IN ROADWAYS REQUIRE CONCRETE COLLAR. IN UNIMPROVED AREAS, THE TOP OF LID SHALL BE SET 6" TO 12" ABOVE FINISH GRADE (NO CONCRETE COLLAR REQUIRED).
2. MANHOLE LID, RING, AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET 1/4" BELOW TOP OF ASPHALT.
3. MANHOLE VAULT MUST BE DESIGNED TO MEET AASHTO HS-20 LOADING.



ENOCH CITY
900 E MIDVALLEY RD
Enoch, UT 84721
Tel. (435) 586-1119

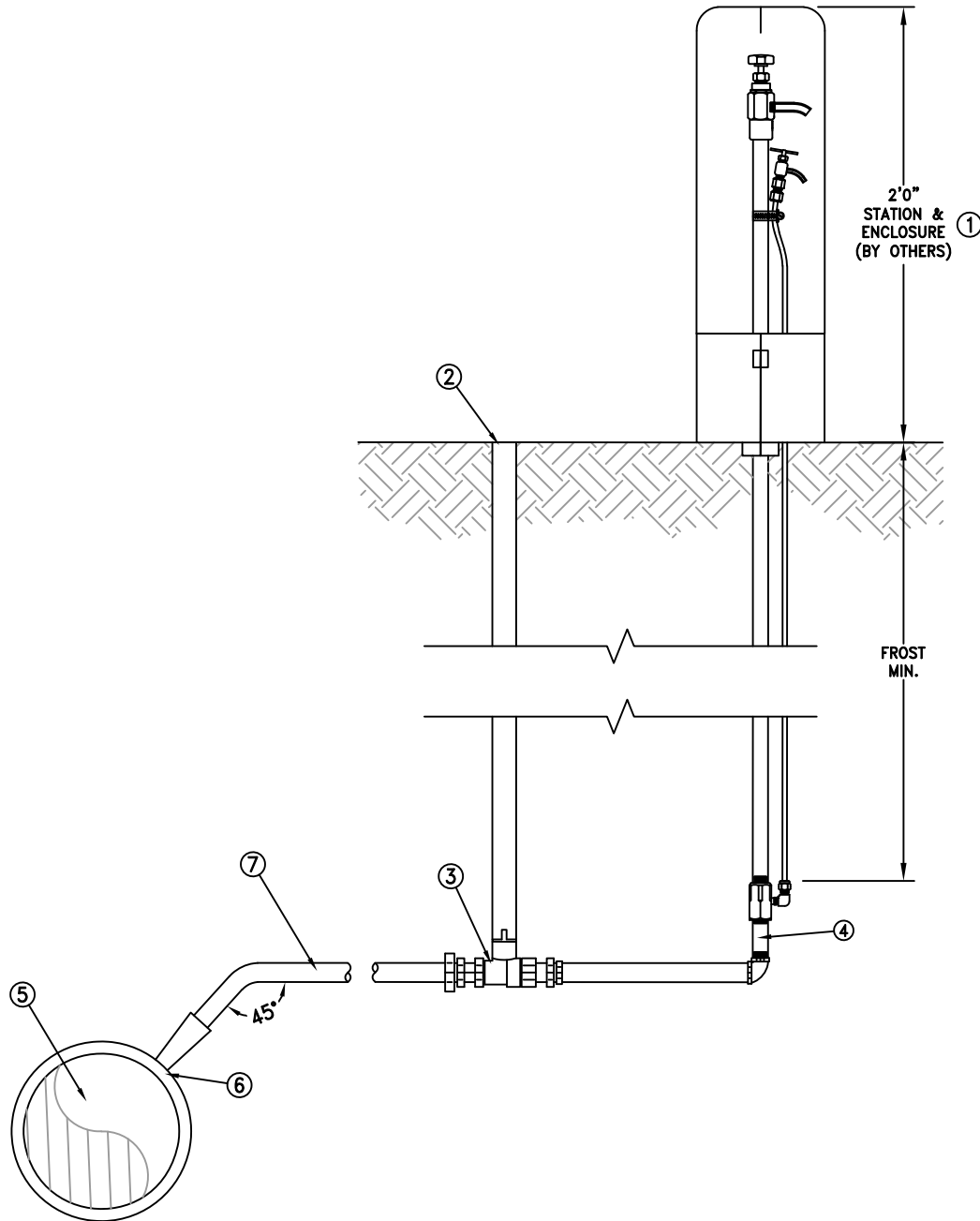
COMBINATION AIR VALVE DETAIL IN ROADWAY

SCALE:
N.T.S.
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NOTES:

1. STATION SHALL BE MODEL #88-SS AS MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO, 63102 or APPROVED EQUAL.
2. WHEN INSTALLED ON A CONCRETE SLAB FOLLOW MANUFACTURER'S GUIDELINES AND SPECS.
3. WHEN INSTALLED IN CORROSIVE SOILS, FOLLOW MANUFACTURER'S GUIDELINES AND SPECS TO PROTECT THE PIPE & FITTINGS.
4. SAMPLING STATION TO BE LOCATED AT THE MIDDLE OF SUBDIVISION or AT THE PROPERTY LINE.

ITEM	ITEM / DESCRIPTION
1	#88-SS SAMPLING STATION
2	CURB STOP VALVE BOX
3	1" CURB STOP BALL VALVE
4	3/4" S.S. NIPPLE
5	WATER MAIN
6	STAINLESS STEEL SADDLE CLAMP
7	1" PVC (TUFF TUBE) SERVICE PIPE



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WATER SAMPLING STATION

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W11.0

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