GENERAL STANDARD DETAILS

STANDARD DETAIL DRAWINGS INDEX

G-2: STANDARD UTILITY LOCATIONS

G-3: WATER LINE & SEWER LINE SEPARATION

G-4: STANDARD UTILITY TRENCH DETAIL IN RIGHT OF WAY

G-5: STANDARD UTILITY TRENCH DETAIL IN RIGHT OF WAY NOTES

G-6: STANDARD UTILITY TRENCH DETAIL - STREET CUT

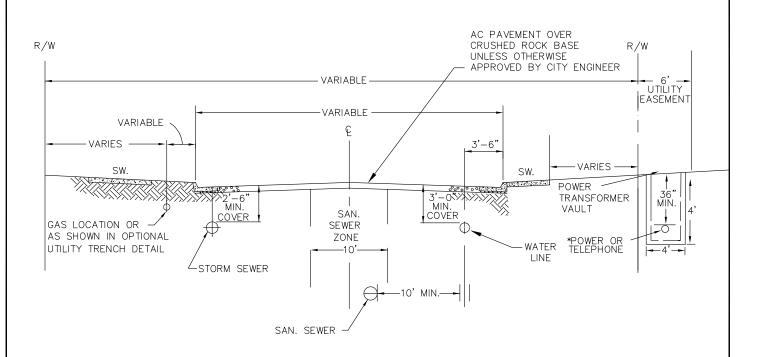
City of Coos Bay
ENGINEERING DEPARTMENT
500 Central Avenue
Coos Bay, Oregon 97420
541-269-8918

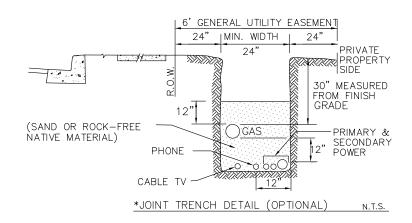
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REVISED BY:	DATE:

STANDARD DETAIL DRAWING INDEX

DRAWING NO.

G-1





- 1. WATER MAIN TO BE LOCATED 3'-6" INSIDE FROM FACE OF CURB OR AS OTHERWISE DIRECTED.
- 2. 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER WHERE POSSIBLE. COMPLY WITH SEPARATION REQUIREMENTS OF OAR 333-061-050.
- 3. WATER DISTRIBUTION MAINS SHALL HAVE 36" MINIMUM COVER OR AS OTHERWISE DIRECTED.
- 4. SEWER MAINS SHALL HAVE 5.25' (63") MINIMUM COVER UNLESS OTHERWISE APPROVED TO AVOID CONFLICTS WITH WATER AND OTHER UTILITIES.
- 5. WATER MAINS SHALL BE LOCATED ON NORTH OR EAST SIDE OF STREET WHEN PRACTICAL.
- 6. SEWER, STREETS AND DRAINAGE SUBJECT TO CITY STANDARDS.
- 7. WATER SYSTEMS ARE SUBJECT TO COOS BAY/NORTH BEND WATER BOARD STANDARDS
- 8 MANHOLE LIDS SHALL NOT BE LOCATED DIRECTLY IN NORMAL WHEEL PATH.
- 9 ALL LAYOUTS AND LOCATIONS ARE SUBJECT TO CITY APPROVAL.



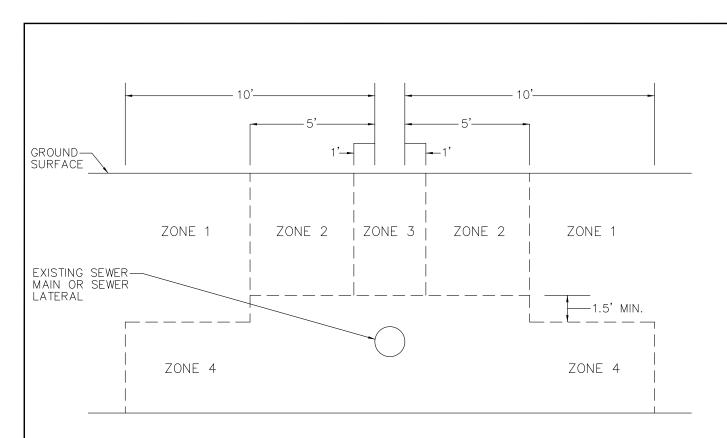
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STANDARD UTILITY LOCATIONS

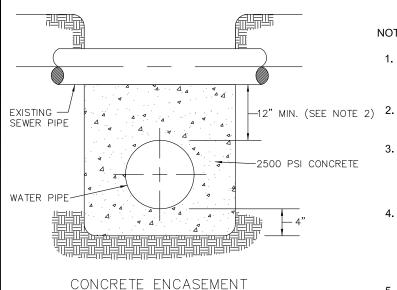
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G**-**2



WATER & SEWER LINE IN PARALLEL CONDITIONS

70NF	VERTICAL SEPERATION	HORIZONTAL SEPERATION	RESTRICTIONS
ZONL	VERTICAL SELEKATION	HONIZONTAL SELENATION	INESTINICTIONS
1	WATER LINE HIGHER THAN SEWER	5'	ONLY CROSSING RESTRICTIONS APPLY
1	WATER LINE LEVEL OR LOWER THAN SEWER	10'	ONLY CROSSING RESTRICTIONS APPLY
2	WATER LINE 1.5' HIGHER THAN SEWER	GREATER THAN 1' BUT LESS THAN 5'	CASE-BY-CASE DETERMINATION
3	WATER LINE 1.5' HIGHER THAN SEWER	LESS THAN 1'	PARALLEL WATER LINE PROHIBITED
4	WATER LINE LIES LESS THAN 1.5' ABOVE SEWER	LESS THAN 5'	PARALLEL WATER LINE PROHIBITED
4	WATER LINE LEVEL OR LOWER THAN SEWER	LESS THAN 10'	PARALLEL WATER LINE PROHIBITED



UNDER EXISTING PIPES

NOTES:

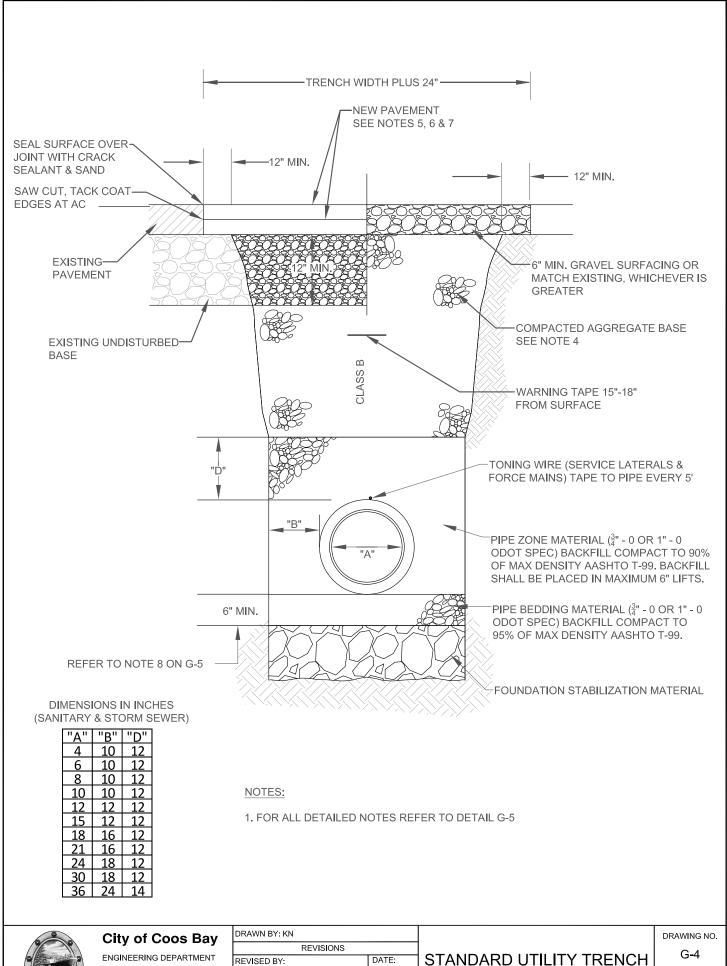
- WATER & SEWER LINE CROSSINGS SHALL COMPLY WITH DESIGN STANDARDS, B. SEWER OR O.A.R. 333-61-050 FOR SEPERATION AND PIPE MATERIAL REQUIREMENTS
- SEPERATION LESS THAN 12" FOR WATER & SEWER LINE CROSSINGS MUST BE APPROVED BY THE CITY ENGINEER.
- 3. CONCRETE ENCASEMENT TO BE USED IN CASES WHERE A WATER MAIN CROSSES UNDER AN EXISTING SEWER MAIN, WITH CITY APPROVAL. MINIMUM ENCASEMENT LENGTH SHALL BE 3 FEET EACH SIDE.
- 4. UNDERGROUND UTILITIES SHALL NOT BE LOCATED CLOSER
 THAN 10' HORIZONTALLY FROM ANY WATER AND SEWER MAIN. UNDER SPECIAL PERMISSION FROM THE CITY ENGINEER, SEPERATION MAY BE REDUCED TO 5'
- SERVICE CONNECTIONS FOR WATER AND SEWER SHALL BE LOCATED NO CLOSER THAN 10' HORIZONTALLY.

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WATER LINE & SEWER LINE SEPARATION

DRAWING NO. **G-3**





500 Central Avenue Coos Bay, Oregon 97420 541-269-8918

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DETAIL - FOR AREA IN ROW

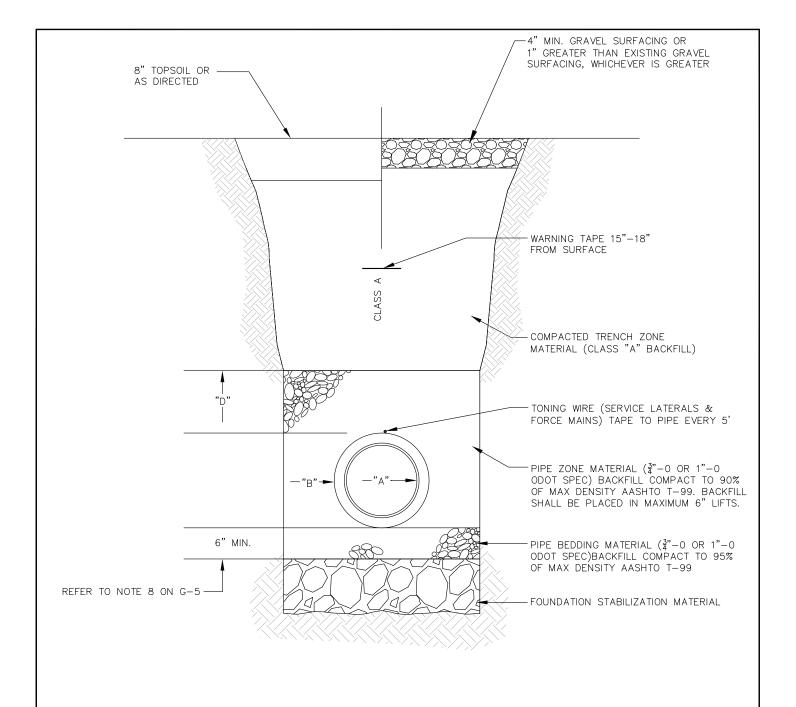
- 1. TRENCH EXCAVATION SHALL BE CONDUCTED IN A SAFE MANNER WITH ALL NECESSARY BRACING AND SHORING PROVIDED TO BE IN COMPLIANCE WITH OSHA.
- ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT IMMEDIATELY PRIOR TO REPAVING.
- 3. FOUNDATION STABILIZATION SHALL BE PROVIDED WHEN MATERIAL AT BOTTOM OF TRENCH IS UNSUITABLE, IN THE OPINION OF THE CITY, TO PROVIDE A STABLE TRENCH BASE.
- PLACE COMPACTED AGGREGATE BASE TO A MINIMUM THICKNESS OF 12 INCHES OR THE THICKNESS OF REMOVED AGGREGATE BASE, WHICH EVER IS GREATER. COMPACTED AS DIRECTED.
- 5. IF EXISTING TRENCH CONSISTED OF CONCRETE PAVEMENT THEN CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF 6 INCHES OR TO THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER. (UNLESS DIRECTED BY THE CITY TO USE AC).
- 6. IF EXISTING TRENCH CONSISTED OF AC PLACE AC MIX TO A MINIMUM THICKNESS OF 4 INCHES (2-2 INCH LIFTS) OR THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER. COMPACT AS DIRECTED. AC PAVEMENT SHALL BE PLACED IN AT LEAST 2 2 INCH LIFTS.
- 7. IN SITUATIONS WHERE EXISTING PCC PAVEMENT IS OVERLAYED WITH AC PAVEMENT. PLACE PCC PAVEMENT IN ACCORDANCE WITH NOTE AND WITH AC PAVEMENT PLACED IN ACCORDANCE WITH NOTE 6.
- 8. BACKFILL IN PIPE ZONE SHALL BE PLACED IN MAXIMUM 6 INCH LIFTS AND COMPACTED AS SPECIFIED.
- 9. TONING WIRE REQUIRED AT SERVICE LATERALS, FORCEMAINS, AND GRAVITY LINE. WIRE SHALL BE 18 GA. MINIMUM SOLID COPPER WIRE WITH GREEN 30 MIL THICK HDPE INSULATION RATED FOR DIRECT BURY. USE APPROVED WATERPROOF SPLICE AT ALL CONNECTIONS.
- 10. SANITARY AND STORM SEWER LINES MUST HAVE WARNING TAPE AND IT SHALL BE 6-INCHES WIDE, 4 MIL THICK, APWA GREEN, READING "CAUTION SEWER LINE BURIED BELOW". WARNING TAPE SHALL BE 15-18 INCHES FROM THE SURFACE.



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STANDARD UTILITY TRENCH DETAIL - NOTES DRAWING NO.

G-5



DIMENSIONS IN INCHES (SANITARY & STORM SEWER)

"A"	"B"	"D"
4	10	12
6	10	12
8	10	12
10	10	12
12	12	12
15	12	12
18	16	12
21	16	12
24	18	12
24 30 36	18	12
36	24	14

NOTES:

1. FOR ALL DETAILED NOTES REFER TO DETAIL S-5



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STANDARD UTILITY TRENCH DETAIL - FOR AREA OUTSIDE ROW DRAWING NO.

G-6

SEWER SYSTEM STANDARD DETAILS

STANDARD DETAIL DRAWINGS INDEX

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S-2	SIMBINDIN	NSIDE DROP	
O-Z	SIMBMID	NOIDE DIVOE	IVIAINI KALL

- S-3: STANDARD OUTSIDE DROP MANHOLE
- S-4: PROFILE OF TYPICAL SANITARY SEWER MAIN INSTALLATION
- S-5: STORM SEWER MANHOLE DETAIL
- S-6: STORM SEWER MANHOLE COVER AND FRAME DETAILS
- S-7: STANDARD INLETS, FRAMES AND GRATES
- S-8: TRAPPED/POLLUTION CONTROL CATCH BASIN
- S-9: TYPICAL DITCH INLET AND GRATE
- S-10: PIPE ANCHOR / TRENCH CUT-OFF DETAIL
- S-11: STANDARD MANHOLE DETAIL (SANITARY & STORM)
- S-12: FLAT-TOP MANHOLE STANDARD DETAIL (SANITARY & STORM)
- S-13: MANHOLE BASE STANDARD DETAILS
- S-14: MANHOLE COVER AND FRAME DETAILS
- S-15: MANHOLE FRAME GRADE ADJUSTMENT
- S-16: TYPICAL PIPE CASING DETAIL
- S-17: STANDARD SERVICE CONNECTION AND LATERAL

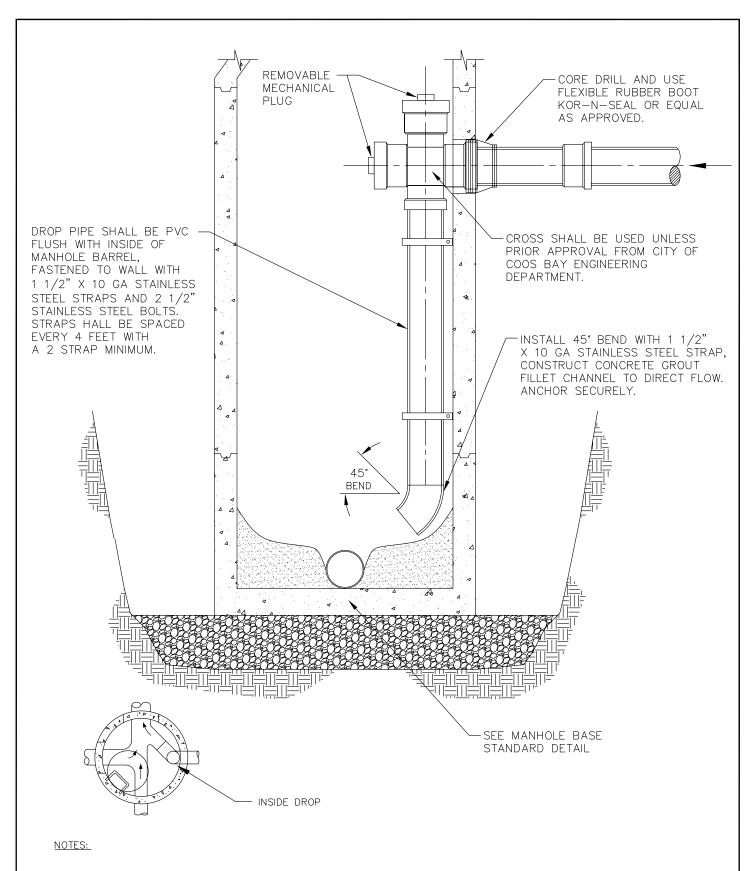


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STANDARD DETAIL DRAWING INDEX

DRAWING NO. S-1



- 1. DROP MANHOLES SHALL ONLY BE USED WITH PRIOR APPROVAL FROM CITY OF COOS BAY ENGINEERING DEPARTMENT.
- 2. PIPE AND FITTING FOR DROP ASSEMBLY SHALL BE: DUCTILE IRON, AWWAC-900 OR PVC ASTM 3034 SDR 35.



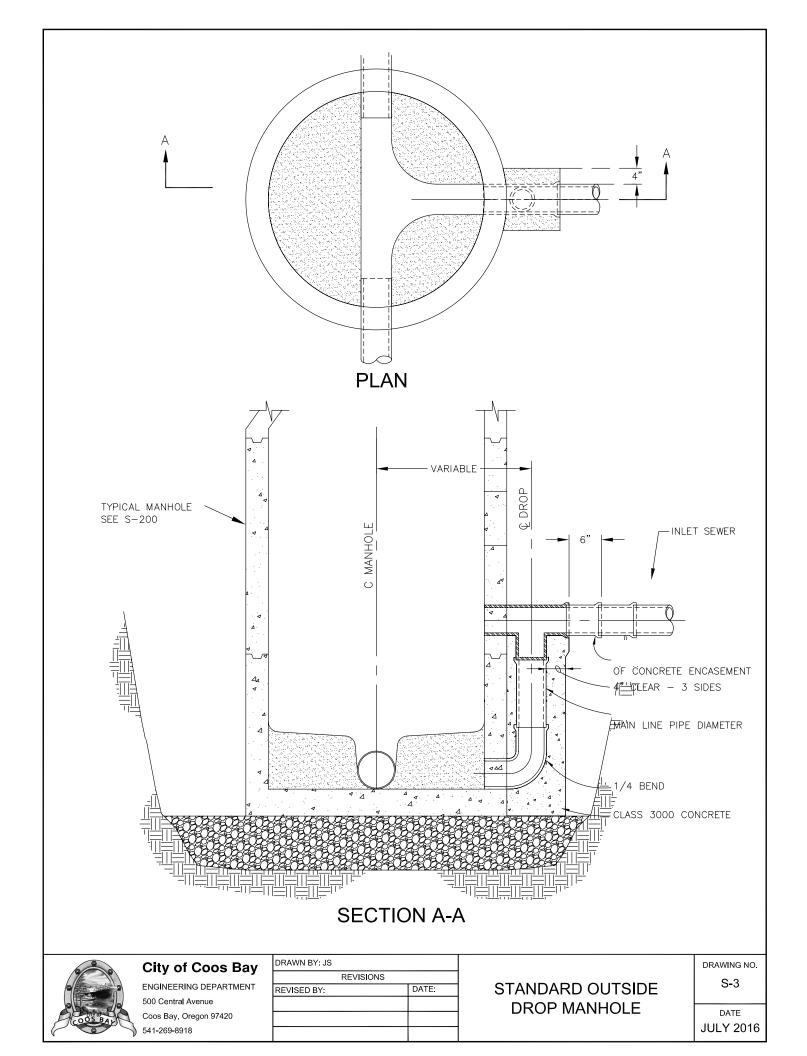
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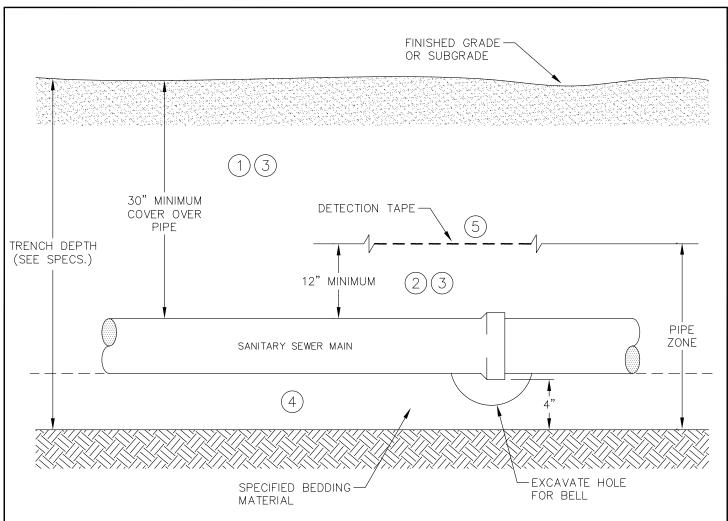
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STANDARD INSIDE DROP MANHOLE

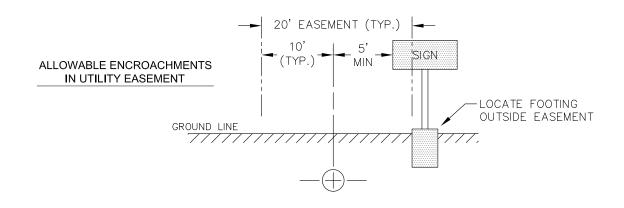
DRAWING NO. S-2

DATE





- 1. CLASS "A" BACKFILL COMPACTED TO 95% OF AASHTO T-99.
- 2. SPECIFIED PIPE ZONE MATERIAL ABOVE, AROUND, AND BELOW PIPE SHALL BE COMPACTED TO 95% OF AASHTO T-99.
- 3. THE ENGINEER MAY REQUIRE THIS ZONE TO BE WATER SETTLED TO PROVE THE INTEGRITY OF THE BACKFILL.
- 4. PIPE BEDDING SHALL MEET THE REQUIREMENTS OF DIVISION I. PIPE BEDDING SHALL BE MECHANICALLY COMPACTED TO 95% OF MAXIMUM AS DETERMINED BY AASHTO T-99.
- 5. DETECTION TAPE TO BE LOCATED AT TOP OF PIPE ZONE. 12" ABOVE THE PIPE.

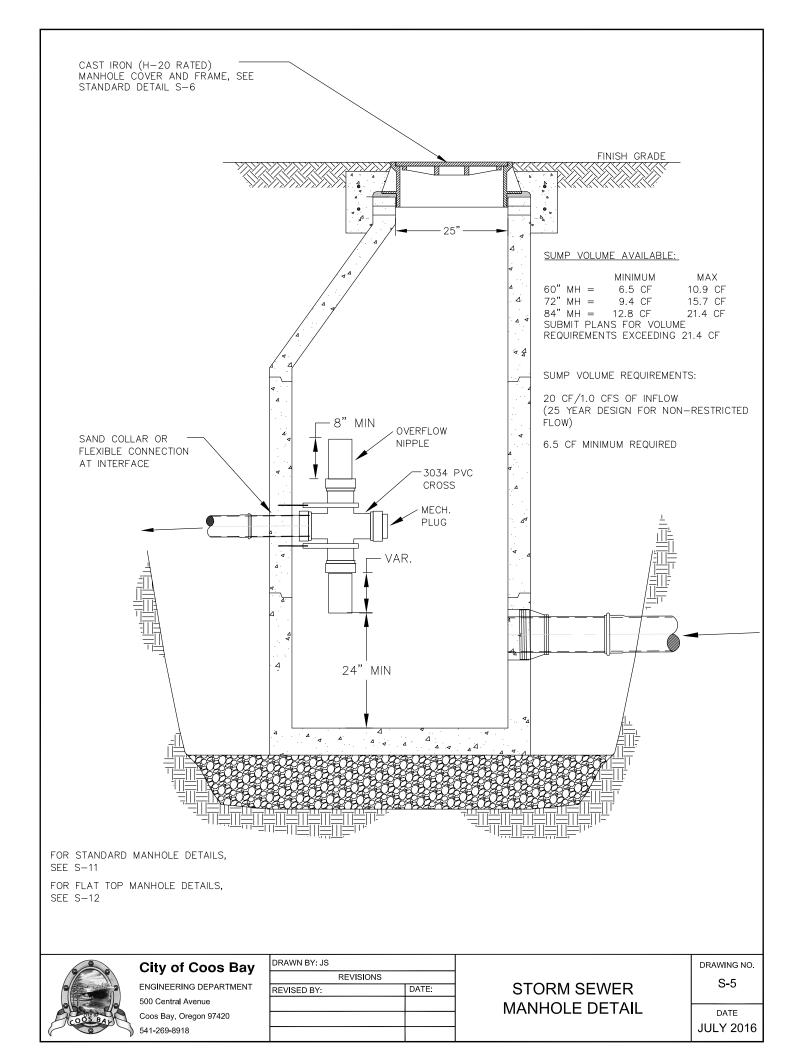


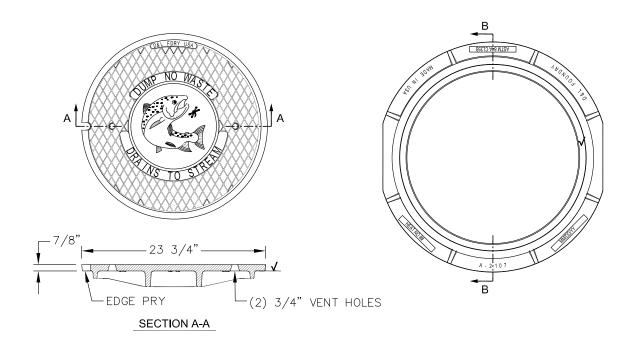


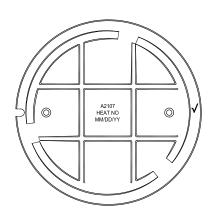
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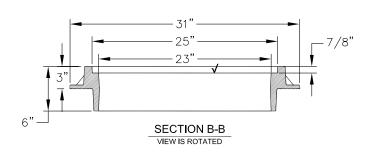
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PROFILE OF TYPICAL SANITARY SEWER MAIN INSTALLATION DRAWING NO. S-4







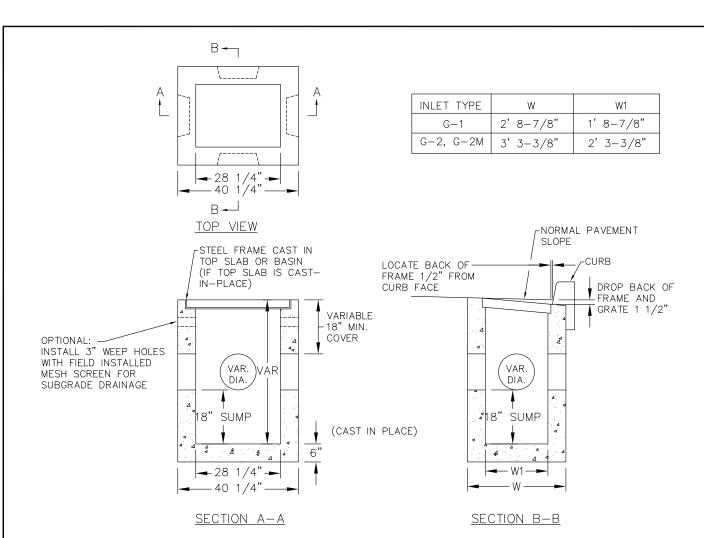




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STORM SEWER
MANHOLE COVER AND
FRAME DETAILS

DRAWING NO. S-6

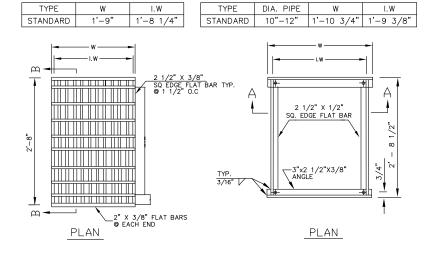


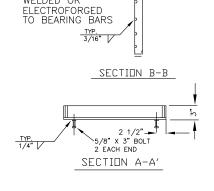
1. CONCRETE STRENGTH SHALL BE 3300 PSI.

NOTE:

3/8" ROUND OR
RECTANGULAR
CROSS BARS
SHALL BE FILLET
WELDED RESISTANCE
WELDED OR
FI FCTROFORGED

2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST—IN—PLACE BASE WALLS SHALL BE 6" THICK.





NOTE: USE VERTICAL BEADS IN CORNERS, FILLET WELD JOINT ON BOTTOM OF FRAME, GRATE MUST REST FLAT ON FRAME SURFACE.

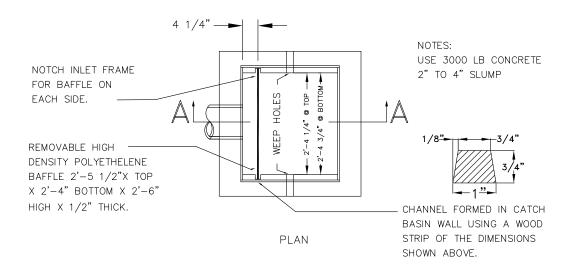
City of Coos Bay

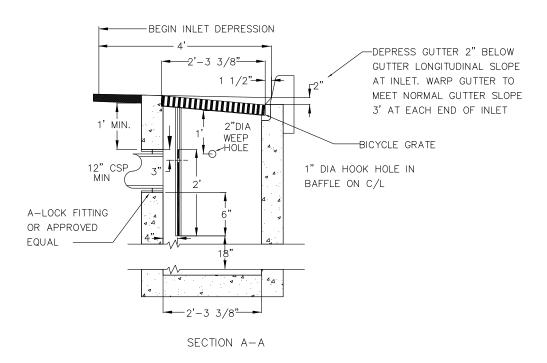
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STANDARD INLETS, FRAMES AND GRATES

DRAWING NO. S-7







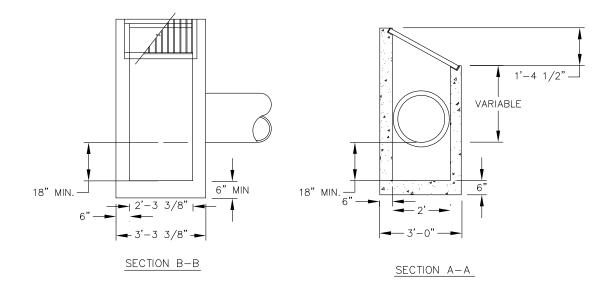
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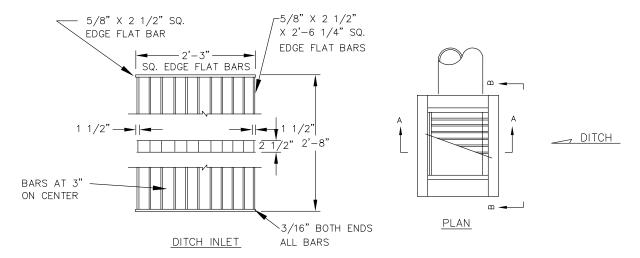
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TRAPPED/POLLUTION CONTROL CATCH BASIN

DRAWING NO.

S-8





- 1. CONCRETE STRENGTH SHALL BE 3300 PSI.
- CATCH BASIN, FRAME, AND GRATES SHALL MEET H2O LOADING.
- 3. INSIDE FRAME DIMENSIONS: 2'-3 3/8", 2'-8 1/2".
- 4. 3/8" CROSS BARS SHALL BE FLUSH WITH THE GRATE SURFACE AND MAY BE FILLET WELDED, RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.
- 5. DITCH INLET CATCH BASINS SHALL MEET THE REQUIREMENTS OF ODOT DITCH INLET TYPE "D"

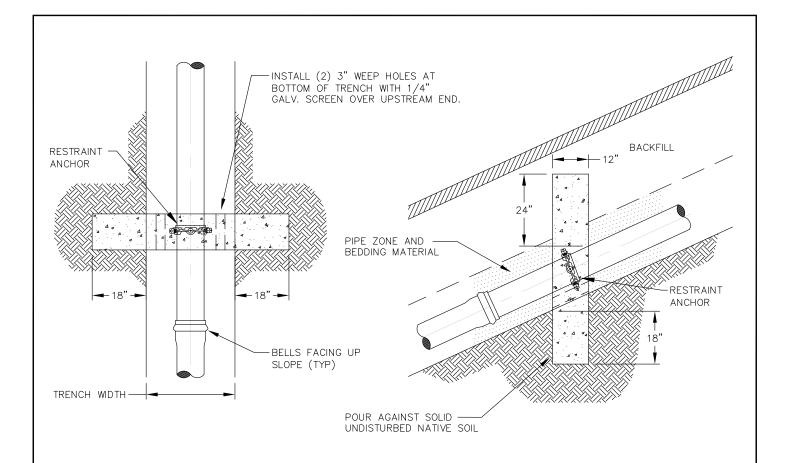


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REVISIONS		
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TYPICAL DITCH INLET AND GRATE

DRAWING NO. S-9



- 1. CUT-OFF WALLS REQ'D AT ALL PIPELINES WHERE SLOPE EXCEEDS 20%.
- 2. RESTRAINED JOINT PIPE REQUIRED AT SLOPES BETWEEN 15% AND 20%.
- 3. WALLS SHALL BE FORMED WITHIN TRENCH. REMOVE FORMS PRIOR TO BACKFILLING.
- 4. CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH MIN. (CLASS 3000).
- 5. SPACING OF WALLS SHALL BE: SLOPE

SLOPE	SPACING
20-34%	35 FEET
35-50%	25 FEET
51-+%	15 FEET

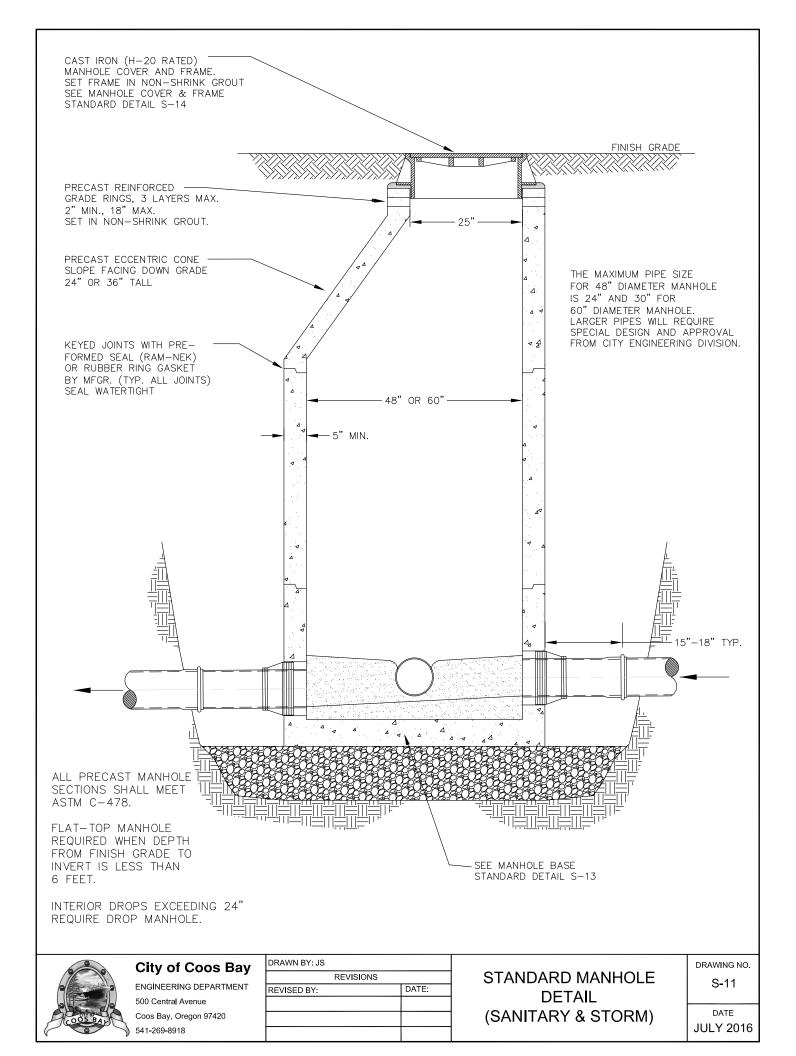


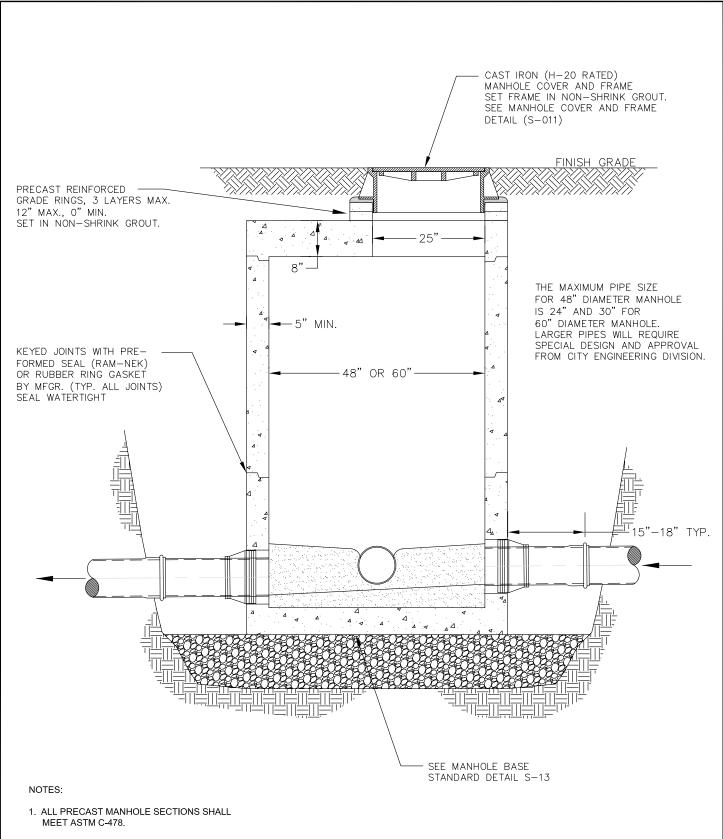
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PIPE ANCHOR / TRENCHC OUT-OFF WALL DETAIL

DRAWING NO. S-10





2. STANDARD MANHOLE REQUIRED WHEN DEPTH FROM FINISH GRADE TO INVERT IS 6 FEET OR MORE.

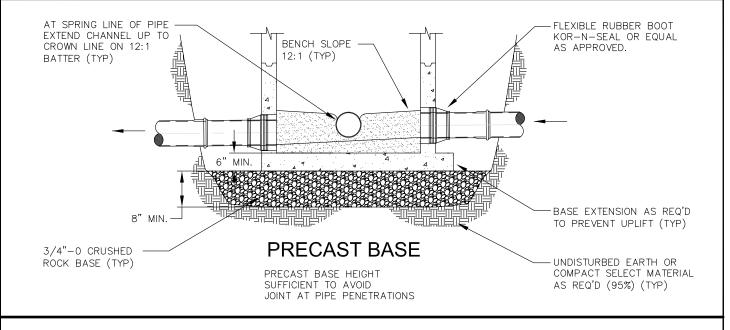


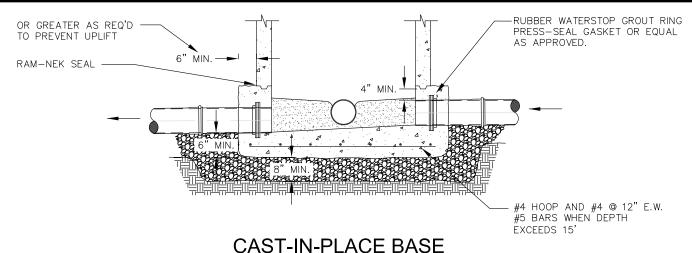
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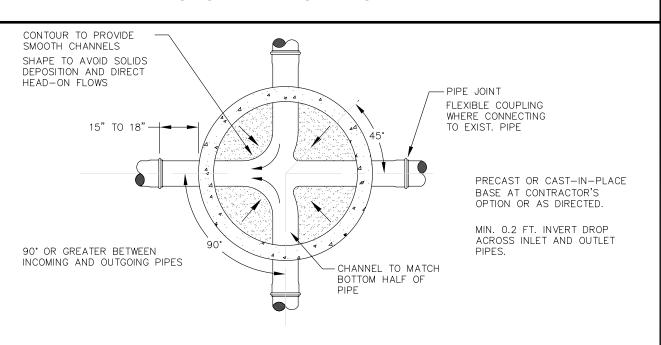
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FLAT-TOP MANHOLE DETAIL (SANITARY & STORM) DRAWING NO.

S-12









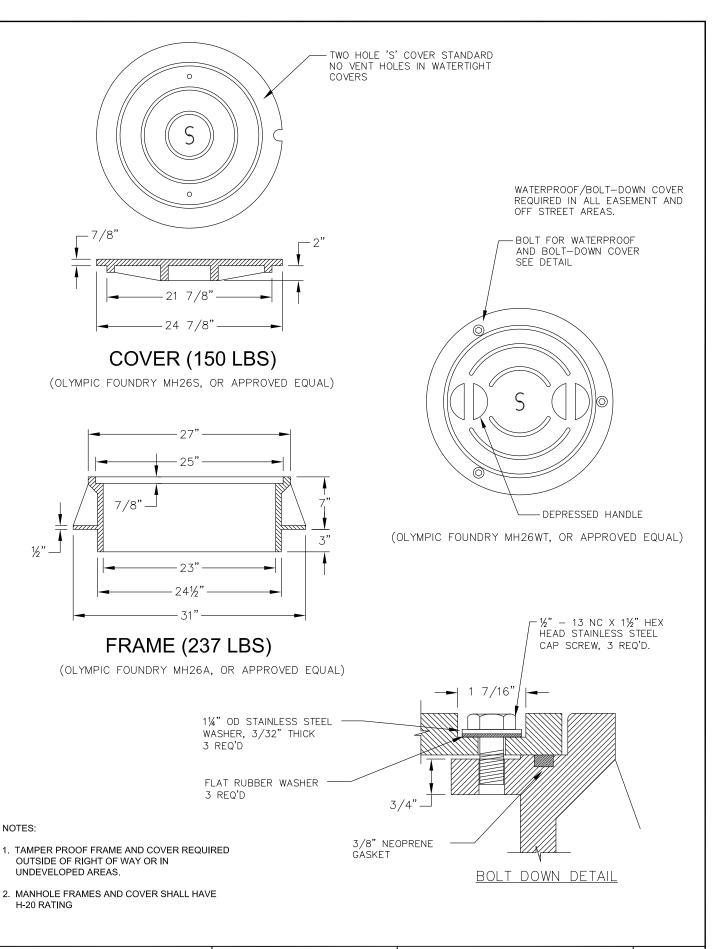
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MANHOLE BASE STANDARD DETAILS

DRAWING NO. S-13

DATE



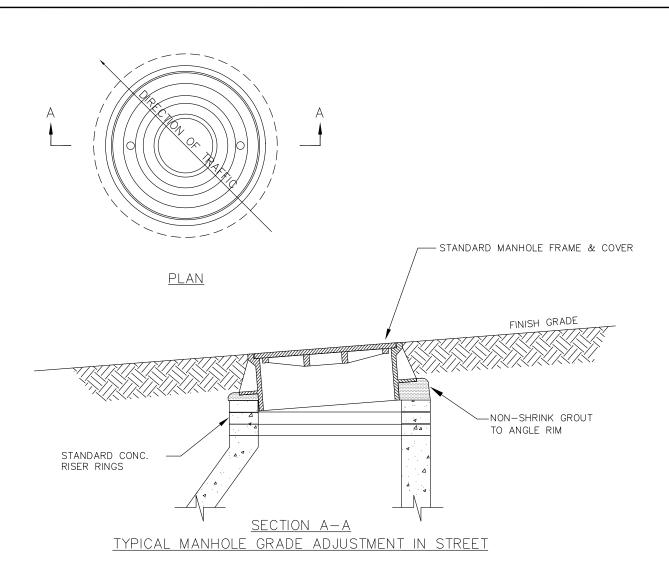


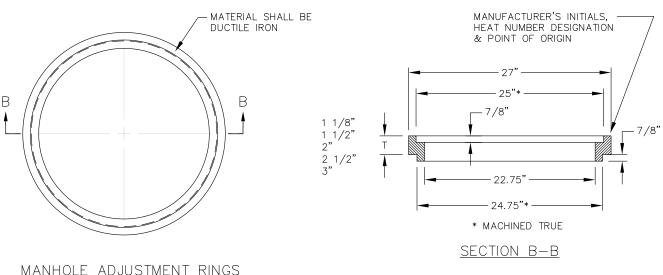
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MANHOLE COVER & FRAME DETAILS DRAWING NO. S-14

DATE





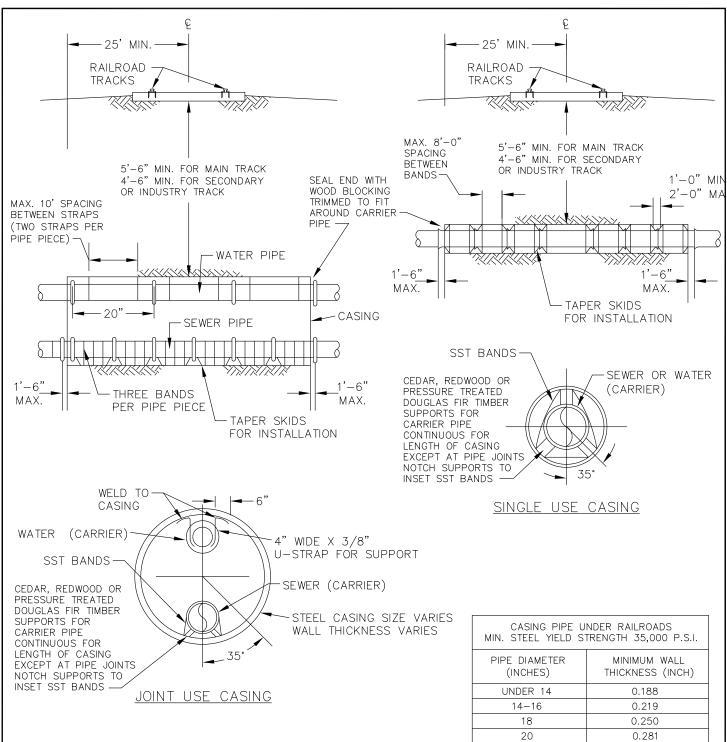
MANHOLE ADJUSTMENT RINGS FOR RESURFACING



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REVISED BY:	DATE:

MANHOLE FRAME GRADE ADJUSTMENT DRAWING NO. S-15



RAILROAD CROSSING DETAIL

NOTES:

- 1. MINIMUM CASING WALL THICKNESS VARIES WITH CASING SIZE. SEE TABLE
- 2. CASING SHALL CONFORM TO SEWER SLOPE WHEN APPLICABLE
- 3. CROSSING DETAIL MAY BE USED FOR HIGHWAYS, STREETS, AND ROADS WITH MIN. WALL THICKNESS OF 0.25 INCH.

CASING PIPE UNDER RAILROADS MIN. STEEL YIELD STRENGTH 35,000 P.S.I.		
PIPE DIAMETER (INCHES)	MINIMUM WALL THICKNESS (INCH)	
UNDER 14	0.188	
14-16	0.219	
18	0.250	
20	0.281	
22	0.312	
24	0.344	
26	0.375	
28-30	0.406	
32	0.438	
34-36	0.469	
38-42 0.500		
* PFR AMERICAN RAII WAY FNGINFFRING		

* PER AMERICAN RAILWAY ENGINEERIN ASSOCIATION, E-72 LOADING

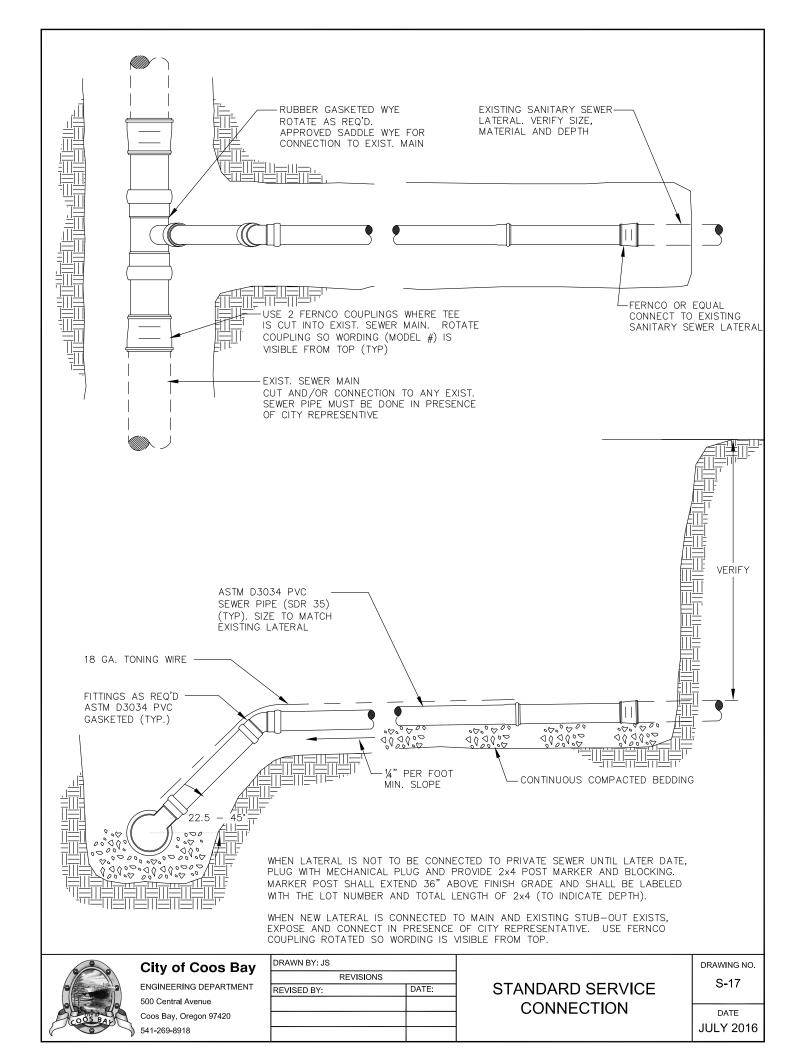


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SINGLE & JOINT USE CASING FOR WATER & SEWER LINES DRAWING NO.

S-16



STREET AND TRANSPORTATION SYSTEMS STANDARD DETAILS

STANDARD DETAIL DRAWINGS INDEX

T-2: STANDARD PAVED STREET

T-3: LOCAL AND ARTER/COLLECTOR CROSS SECTIONS

T-4: TYPICAL CUL-DE-SAC DETAIL

T-5: CONCRETE DRIVEWAY APPROACH OPTION "A"

T-6: CONCRETE DRIVEWAY APPROACH OPTION "B"

T-7: TYPICAL MULTI-USE PATH DETAIL

T-8: STANDARD SIDEWALK DETAILS

T-9: SIDEWALK AND CURB RAMPS (WITH PLANTER STRIP)

T-10: RAMP & TEXTURE DETAIL (WITH PLANTER STRIP)

T-11: SIDEWALK AND CURB RAMPS (WITHOUT PLANTER STRIP)

T-12: RAMP & TEXTURE DETAIL (WITHOUT PLANTER STRIP)

T-13: CURB AND GUTTER DETAIL

T-14: VALLEY GUTTER DETAIL

T-15: STREET SIGN AND LETTERING DETAILS

T-16: STANDARD PERMANENT BARRICADE DETAIL

T-17: CLUSTER POSTAL DELIVERY BOX PARKING BAY

T-18: "T" INTERSECTION ALIGNMENT STANDARD

T-19: SIGHT VISIBILITY STANDARD

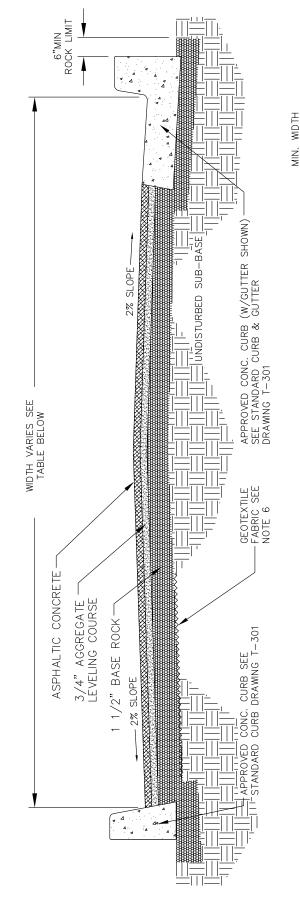


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STANDARD DETAIL DRAWING INDEX

DRAWING NO.
T-1



-CURB 70, 50, 36, 28' 40' 36, CURB-TO COMMERCIAL/INDUSTRAIL ARTERIAL/COLLECTOR RESIDENTIAL STREET TYPE 5-LANE 3-LANE 2-LANE DEAD END OCAL

WIDTHS MAY BE MODIFIED BY THE CITY ENGINEERING DEPARTMENT TO SUIT SITE CONDITIONS

MINIMUM THICKNESS*

STREET TYPE	ASPHALTIC CONCRETE	AGGREGATE LEVELING COURSE	BASE ROCK
ARTERIAL/ COLLECTOR	2-2" LIFTS	2"	10"
LOCAL	2"	2"	10"
ALLEY	2"	2"	10"

THICKNESS MAY BE MODIFIED BY THE CITY ENGINEERING DEPARTMENT OR MODIFIED TO MATCH EXISTING CONDITIONS

367

NOTES:

STREETS SHALL BE PAVED CENTERED IN THE PUBLIC RIGHT OF WAY REFERENCE CITY OF COOS BAY LAND DEVELOPMENT ORDINANCE

COOS BAY/NORTH BEND WATER BOARD, PACIFIC POWER & LIGHT, VERZION TELEPHONE, COMCAST CABLE, NORTH WEST NATURAL, AND THE CITY OF COOS BAY. developer shall obtain written approval to pave over public utilities from:

THE DEVELOPER SHALL OBTAIN A RIGHT OF WAY USE PERMIT AND SUBMIT A COMPLETE SET OF ENGINEERED DRAWINGS SHOWING THE PLAN AND PROFILE VIEWS OF EXISTING CONDITIONS AND PROPOSED WORK. WHEN PROJECT IS COMPLETE, THE DEVELOPER SHALL FURNISH THE CITY WITH A COMPLETE SET OF REPRODUCIBLE DRAWINGS AND CD SHOWING 4

DESIGN STANDARDS MANUAL FOR COMPACTION OF MATERIALS AND THE "AS CONSTRUCTED" CONDITIONS OF THE COMPLETED PROJECT. 2

TESTING. 9

THE CITY OF COOS BAY TRANSPORTATION SYSTEM PLAN GEOTEXTILE FABRIC AS REQ'D REFERENCE

City of Coos Bay ENGINEERING DEPARTMENT 500 Central Avenue

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STANDARD PAVED STREET

DRAWING NO. T-2

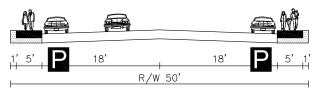
LOCAL STREET

28' Standard Residential

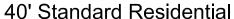
R/W 50'

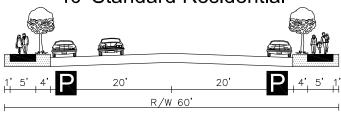
50' Right-of-Way <1,000 vpd

36' Standard Residential



50' Right-of-Way <1,000 vpd





Legend

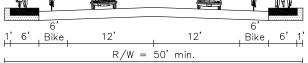
60' Right-of-Way

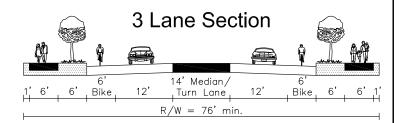


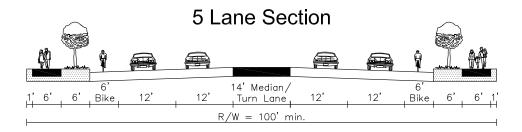
P On-Street Parking Lane

ARTERIAL/COLLECTOR STREET









NOTES:

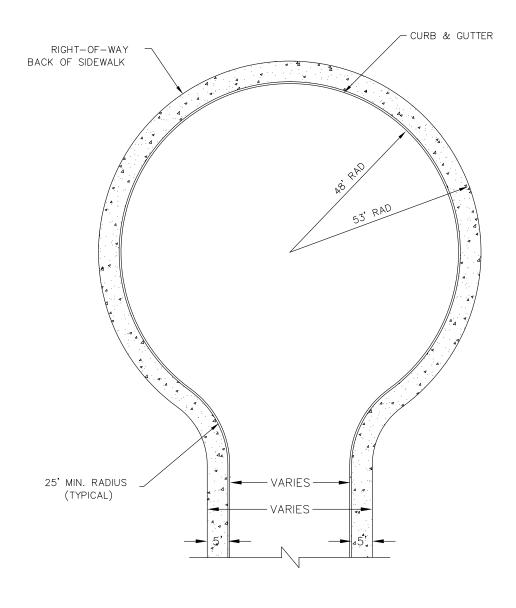
- 1. APPROVED SIDEWALKS SEE STANDARD SIDEWALK DETAIL T-8
- 2. APPROVED CONCRETE CURB & GUTTER SEE STANDARD CURB & GUTTER DETAIL T-13
- 3. REFER TO CITY OF COOS BAY TRANSPORTATION SYSTEM PLAN



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LOCAL AND ARTERIAL/COLLECTOR STREET CROSS SECTIONS DRAWING NO. T-3



1. CUL-DE-SAC GEOMETRY SHOWN DOES NOT ALLOW FOR
ON-STREET PARKING. IF ON-STREET PARKING IS DESIRED, THE
RADIUS TO THE FACE OF CURB MUST BE INCREASED TO ACCOUNT
FOR A SINGLE PARKING LANE WIDTH. (MINIMUM 8 FEET)

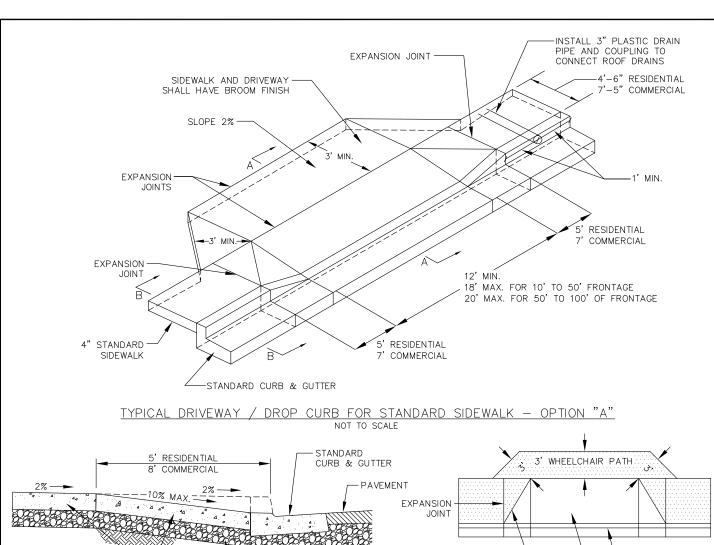


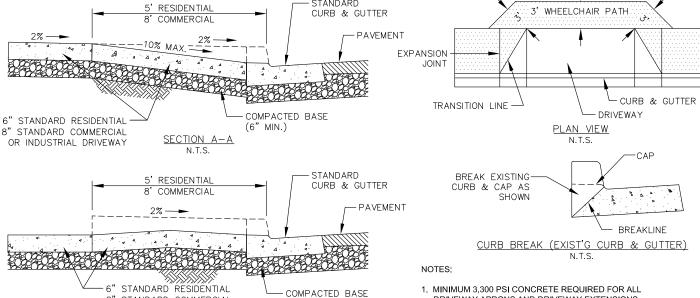
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TYPICAL CUL-DE-SAC DETAIL

DRAWING NO.

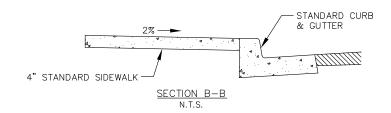




DROP DRIVEWAY SECTION

STANDARD COMMERCIAL

OR INDUSTRIAL DRIVEWAY



- 1. MINIMUM 3,300 PSI CONCRETE REQUIRED FOR ALL DRIVEWAY APRONS AND DRIVEWAY EXTENSIONS.
- 2. COMPACT BACKFILL UNDER SIDEWALK & DRIVEWAY TO 95% RELATIVE COMPACTION PER AASHTO T-99 METHOD.
- 3. CONCRETE APRON REQUIRED FOR ALL DRIVEWAYS (5' WIDE FOR RESIDENTIAL, 8' WIDE FOR COMMERCIAL) WHERE NO SIDEWALK IS CONSTRUCTED.
- 4. PLANNING COMMISSION APPROVAL REQUIRED FOR DEVIATION FROM DRIVEWAY WIDTH STANDARDS.
- 5. PERMITS AND INSPECTIONS REQUIRED FOR NEW AND EXISTING STRUCTURES. INSPECTION WILL BE MADE AFTER FORMS HAVE BEEN SET.
- 6. FOR STANDARD SIDEWALK SEE DETAIL T-8.
- 7. FOR STANDARD CURB & GUTTER SEE DETAIL T-13.



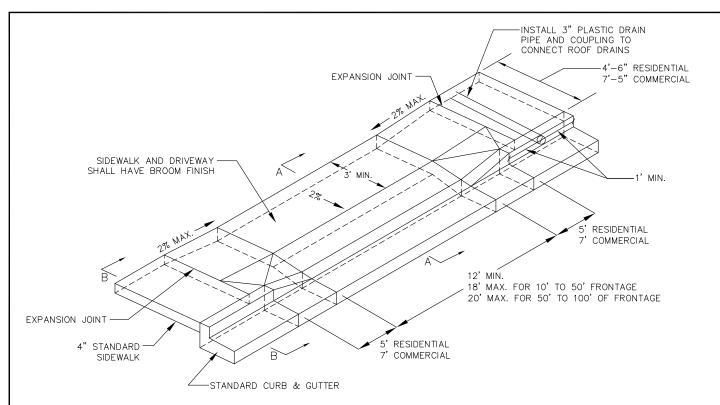
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REVISED BY:	DATE:

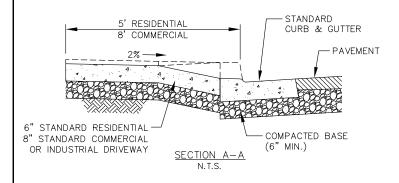
(6" MIN.)

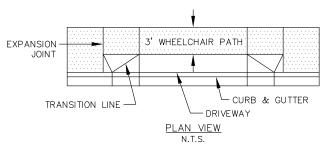
CONCRETE DRIVEWAY **OPTION "A"**

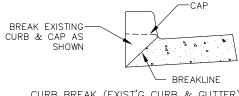
DRAWING NO. T-5



TYPICAL DRIVEWAY / DROP CURB FOR STANDARD SIDEWALK - OPTION "B" NOT TO SCALE



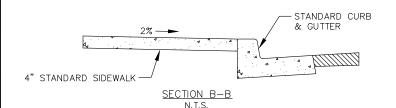




1. MINIMUM 3,300 PSI CONCRETE REQUIRED FOR ALL DRIVEWAY APRONS AND DRIVEWAY EXTENSIONS.

NOTES:

- CURB BREAK (EXIST'G CURB & GUTTER)
- 2. COMPACT BACKFILL UNDER SIDEWALK & DRIVEWAY TO 95% RELATIVE COMPACTION PER AASHTO T-99 METHOD.



- 3. CONCRETE APRON REQUIRED FOR ALL DRIVEWAYS (5' WIDE FOR RESIDENTIAL, 8' WIDE FOR COMMERCIAL) WHERE NO SIDEWALK IS CONSTRUCTED.
- 4. PLANNING COMMISSION APPROVAL REQUIRED FOR DEVIATION FROM DRIVEWAY WIDTH STANDARDS.
- 5. PERMITS AND INSPECTIONS REQUIRED FOR NEW AND EXISTING STRUCTURES. INSPECTION WILL BE MADE AFTER FORMS HAVE BEEN SET.
- 6. FOR STANDARD SIDEWALK SEE DETAIL T-8.
- 7. FOR STANDARD CURB & GUTTER SEE DETAIL T-13.



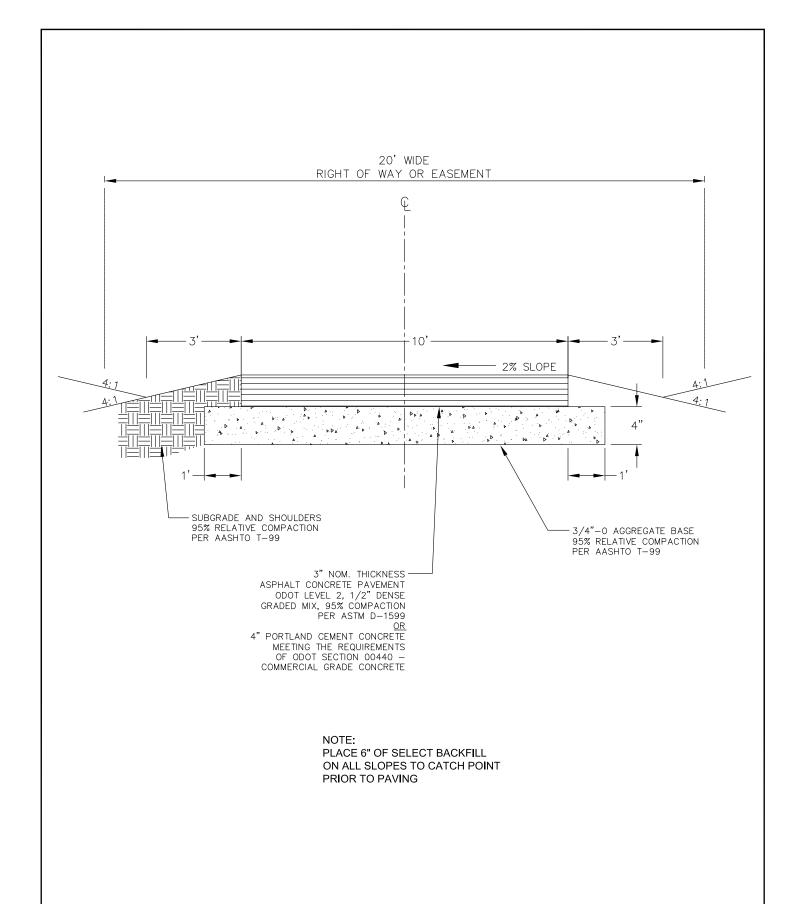
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CONCRETE DRIVEWAY OPTION "B"

DRAWING NO. T-6





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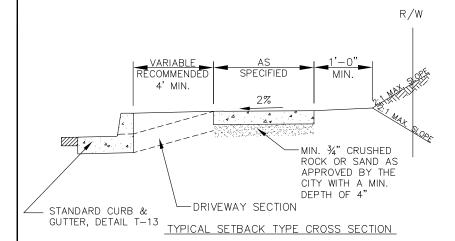
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REVISED BY:	DATE:

TYPICAL MULTI-USE PATH SECTION

DRAWING NO.

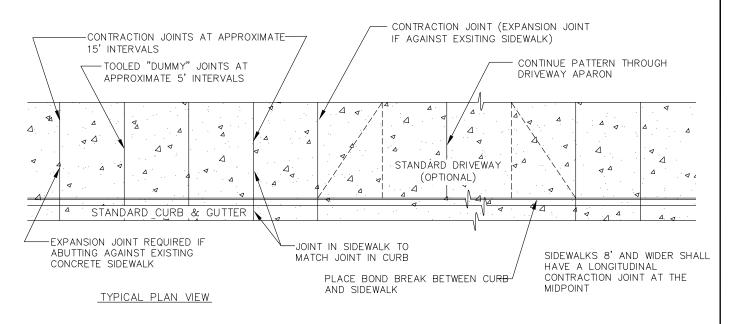
T-7

R/W TOP OF CONCRETE SIDEWALK TO BE SPECIFIED MIN. 1/4"ABOVE BACK OF CURB MIN. 34" CRUSHED ROCK OR SAND AS . 4 APPROVED BY THE CITY WITH A MIN. STANDARD CURB & DEPTH OF 4" GUTTER, DETAIL T-13 DRIVEWAY SECTION TYPICAL CURB TYPE CROSS SECTION



NOTES:

- CONCRETE PER CITY OF COOS BAY STANDARD SPECIFICATIONS.
- 2. STANDARD SIDEWALK CROSS SLOPE SHALL BE 2%. WHEN THE LOT IS BELOW THE TOP OF THE CURB AND SLOPE DOWN FROM CURB, A MINUS 2% SLOPE MAY BE REQUIRED.
- 3. CONCRETE DEPTH FOR SIDEWALKS SHALL SHALL BE A NOMINAL 4" MIN. DRIVEWAY SECTIONS INCLUDING SIDEWALKS THROUGH DRIVEWAYS SHALL BE NOMINAL 6" MIN FOR RESIDENTIAL AND 8" FOR COMMERCIAL AND INDUSTRIAL APPROACHES.
- 4. CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATE INTERVALS OF 15' BY CUTTING AT LEAST ½ OF THE DEPTH OF THE CONCRETE. "DUMMY" JOINTS SHALL BE INSTALLED AT APPROXIMATE INTERVALS OF 5'. EXPANSION JOINTS WITH PREMOLDED FILLER SHALL BE INSTALLED BETWEEN DRIVEWAYS & SIDEWALKS AT THE DIRECTION OF THE ENGINEER, SEE DRIVEWAY STANDARD
- 5. INSTALL A BOND BREAKER OR ISOLATION JOINT BETWEEN BACK OF CURB & SIDEWALK, & AROUND ANY OBSTRUCTION WITHIN SIDEWALK AREA
- 6. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIA. PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE
- 7. SEE STANDARD WHEELCHAIR/BICYCLE RAMP DETAILS FOR SIDEWALK PATTERNS AT INTERSECTION CURB RETURNS
- 8. SEE, ALSO, STANDARD DETAILS FOR DRIVEWAYS, T-5, T-6
- 9. A MIN. SEPARATION OF 4' BETWEEN CURB & SIDEWALK IS RECOMMENDED FOR LANDSCAPE MAINTENANCE
- 10. SIDEWALKS 8' AND WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT THE MIDPOINT





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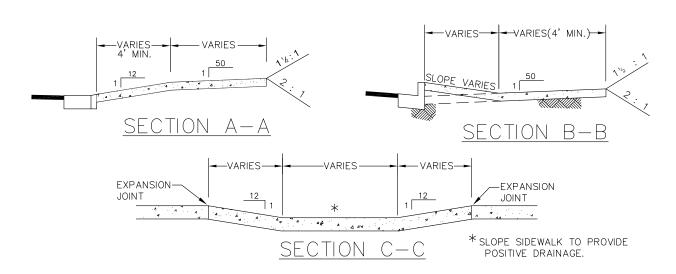
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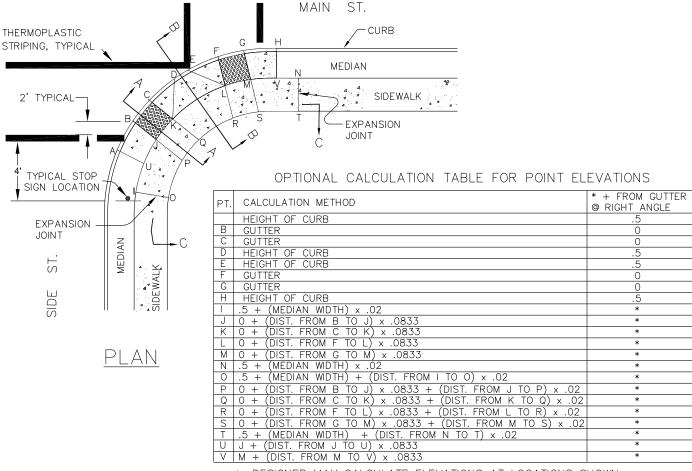
STANDARD SIDEWALK
DETAILS

DRAWING NO.

T**-**8



- WHEELCHAIR RAMP GRADES SHALL MEET ADA STANDARDS. THE TABLE PROVIDED BELOW IS TO ASSIST THE DESIGNER AND CONTRACTOR WHO ELECT TO CALCULATE ELEVATIONS TO MEET THOSE STANDARDS.
- 2. PROVIDE STOP LINE ONLY ON SIDE STREET APPROACHES TO MAIN STREETS WITH CENTERLINE STRIPING. CROSSWALK LINES WHERE REQUIRED MUST BE AS PER STRIPING PLAN APPROVED BY THE CITY
- 5. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI IN 28 DAYS



DESIGNER MAY CALCULATE ELEVATIONS AT LOCATIONS SHOWN.

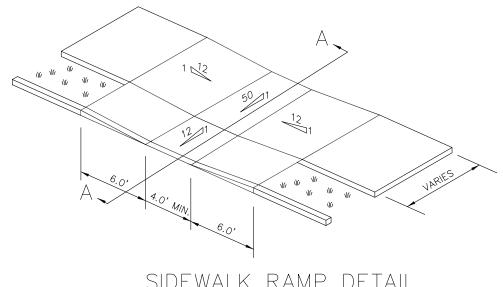


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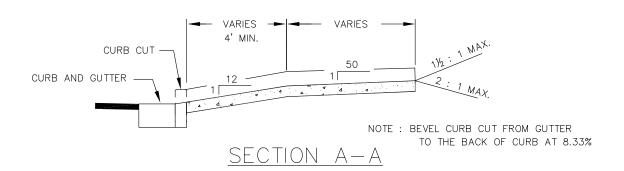
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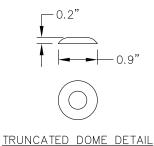
SIDEWALK & RAMP DETAIL WITH PLANTER STRIP

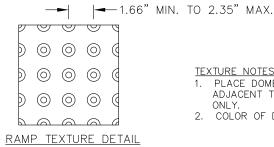
T-9
DATE



SIDEWALK RAMP DETAIL







TEXTURE NOTES:

- PLACE DOME TEXTURE IN THE LOWER 2'
 ADJACENT TO TRAFFIC THROAT OF RAMP ONLY.
- 2. COLOR OF DOMES TO BE SAFETY YELLOW.

RAMP TEXTURE DETAIL

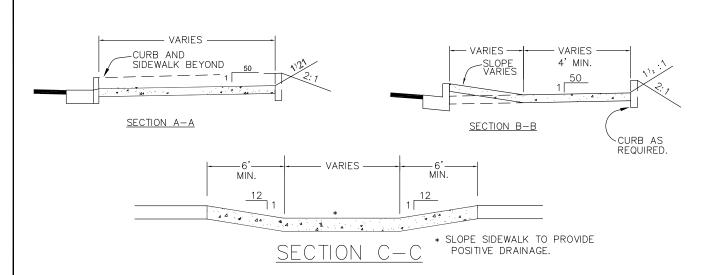


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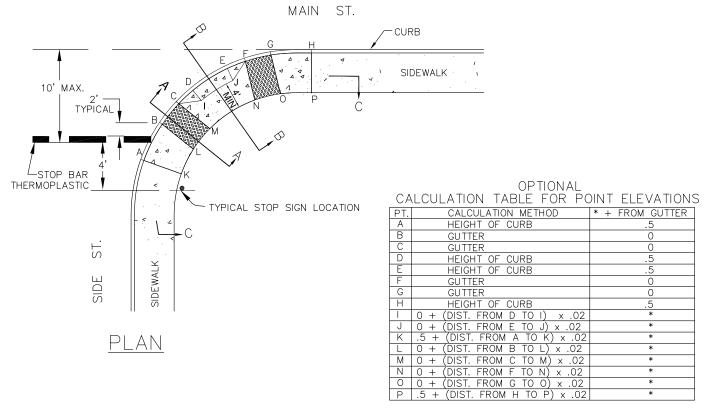
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RAMP & TEXTURE DETAIL WITH PLANTER STRIP

DRAWING NO. T-10



- 1. WHEELCHAIR RAMP GRADES SHALL MEET ADA STANDARDS. THE TABLE PROVIDED BELOW IS TO ASSIST THE DESIGNER AND CONTRACTOR WHO ELECT TO CALCULATE ELEVATIONS TO MEET THOSE STANDARDS.
- 2. PROVIDE STOP LINE ONLY ON SIDE STREET APPROACHES TO MAIN STREETS WITH CENTERLINE STRIPING. CROSSWALK LINES WHERE REQUIRED MUST BE AS PER STRIPING PLAN APPROVED BY THE CITY
- 5. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI IN 28 DAYS



* DESIGNER MAY CALCULATE ELEVATIONS AT LOCATIONS SHOWN.

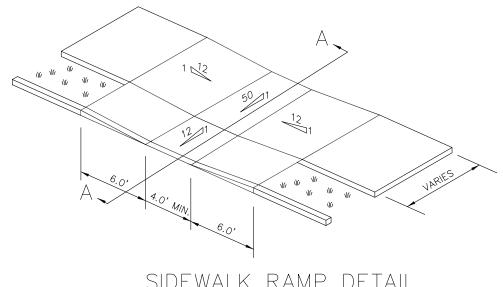


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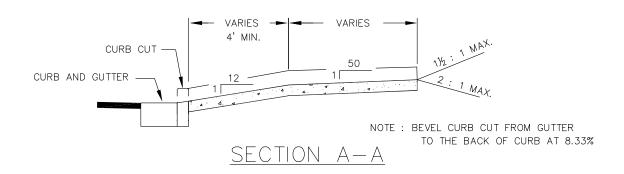
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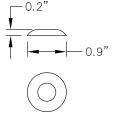
SIDEWALK & RAMP DETAIL WITHOUT PLANTER STRIP

DRAWING NO.

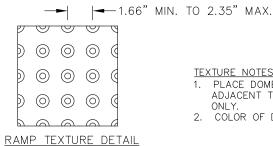


SIDEWALK RAMP DETAIL





TRUNCATED DOME DETAIL



TEXTURE NOTES:

- PLACE DOME TEXTURE IN THE LOWER 2'
 ADJACENT TO TRAFFIC THROAT OF RAMP ONLY.
- 2. COLOR OF DOMES TO BE SAFETY YELLOW.

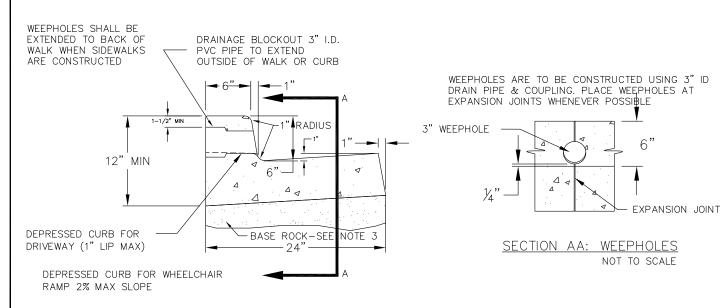
RAMP TEXTURE DETAIL



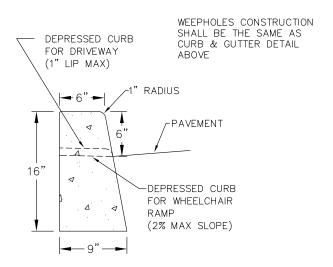
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RAMP & TEXTURE DETAIL WITHOUT PLANTER STRIP DRAWING NO. T-12



TYPICAL INTEGRAL CURB & GUTTER
NOT TO SCALE



TYPICAL STRAIGHT CURB (TYPE C)
NOT TO SCALE

NOTES:

- CONCRETE PER CITY OF COOS BAY STANDARD SPECIFICATIONS.
- 2. CONTRACTION JOINTS
 - A) TO BE PROVIDED
 - -AT EACH POINT OF TANGENCY
 - -AT EACH COLD JOINT
 - -AT EACH SIDE OF INLET STRUCTURES
 - -AT BOTH SIDES OF AN APPROACH
 - B) SPACING TO BE NOT MORE THAN 10 FEET
 - C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
 - D) EXPANSION JOINTS IN CURB & GUTTER SHALL BE PLACED AT MAX 50' INTERVALS IN 10' MULTIPLES
- 3. BASE ROCK 1-1/2"-0", 95% COMPACTION ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
- 4. DRAINAGE BLOCK 3" DIA. PLASTIC PIPE
 - A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
 - -CORE DRILLING, OR
 - -VERTICAL SAWCUT OF CURB 18" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH
 - OF CURB
- STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING AS SPECIFIED
- 6. SEE STANDARD CURB CUT DETAIL FOR DRIVEWAY
- 7. TYPICAL STRAIGHT CURB (TYPE C) ALLOWED FOR REPLACEMENT OF EXISTING TYPE C CURBS AND NOT RECOMENDED FOR NEW CONSTRUCTION



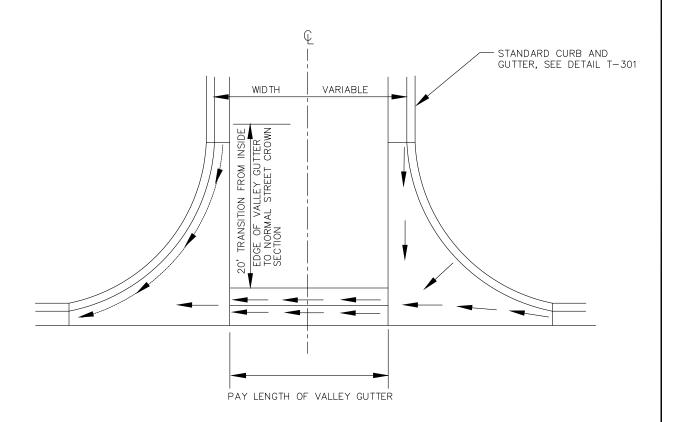
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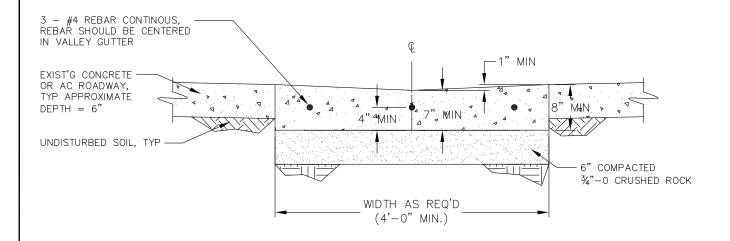
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REVISED BY:		DATE:

CURB AND GUTTER DETAILS

DRAWING NO.

T-13





1. VALLEY GUTTERS ARE NOT TO BE USED EXCEPT FOR IN ALLEYS OR OTHER SPECIAL CONDITIONS AS APPROVED BY CITY ENGINEER.

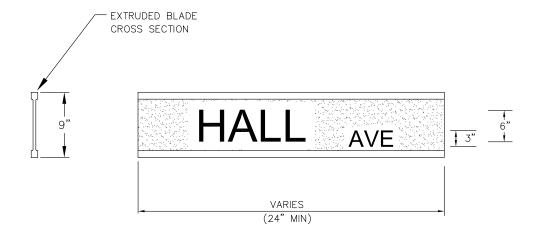


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VALLEY GUTTER DETAIL

DRAWING NO.
T-14



1. MATERIALS

STREET NAME SIGN SHALL BE 9" HEIGHT, EXTRUDED ALUMINUM. THE MINIMUM LENGTH SHALL BE 24" AND MAXIMUM LENGHT SHALL BE 36" BOTH SIDES OF STREET NAME SIGNS SHALL BE GREEN 3M SCOTCHLITE BRAND HIGH INTENSITY REFLECTIVE SHEETING WITH WHITE BORDER.

2. LETTERING

ALL LETTERS, NUMBERS, AND BORDERS USED TO FABRICATE A STREET NAME SIGN SHALL BE HIGH INTENSITY SILIVER USING 3M SCOTCHLITE BRAND. THERE ARE TWO SIZES OF LETTERS THAT MAKE UP A STREET NAME SIGN. FOR PREFIXES, SUFFIXES, AND BLOCK NUMBERS. A 3" SERIES 'C' IS USED. THE ACTUAL NAME OF THE STREET IS A 6" SERIES 'B'. ALL STREET NAME SIGNS SHALL HAVE BLOCK NUMBERS, AS ASSIGNED BY THE CITY, WHEN INSTALLED BY CONTRACTOR.

3. MISCELLANEOUS

STREET NAMES SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO THE SIGNS BEING FABRICATED AND INSTALLED.



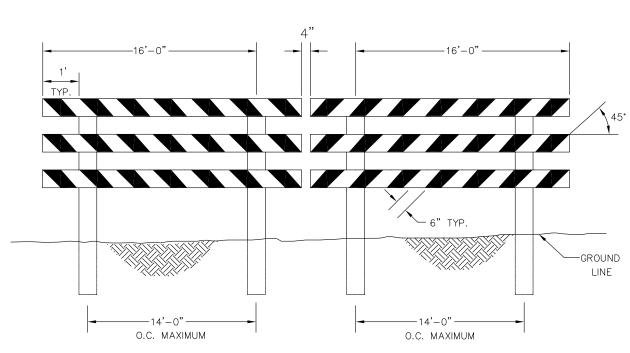
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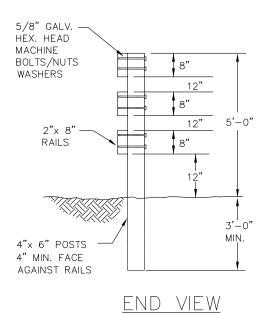
STREET SIGN AND LETTERING DETAILS

DRAWING NO.

T-15



ELEVATION



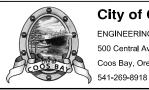
NOTES:

- RAILS TO BE RETROREFLECTIVE WHITE AND ORANGE STRIPES. POSTS TO BE PRESSURE TREATED.
- 2. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE OREGON SUPPLEMENT.

3F-1 BARRICADES

6C-8 BARRICADE DESIGN 6C-9 BARRICADE APPLICATION

- 3. ALL MATERIAL AND WORKMANSHIP SHALL
 BE IN ACCORDANCE WITH THE CURRENT
 STATE OF OREGON STANDARD SPECIFICATIONS
 FOR HIGHWAY CONSTRUCTION.
- 4. FOR WIDER APPLICATIONS, MULTIPLE SECTIONS AS SHOWN SHALL BE USED.



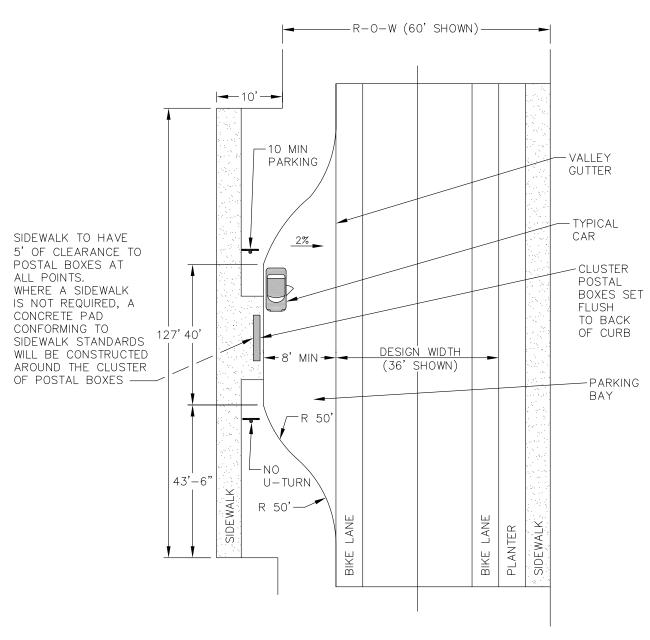
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N.T.S.

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RE\	/ISED BY:	DATE:

STANDARD PERMANENT BARRICADE DETAIL

DRAWING NO.



1. PARKING BAY IS REQUIRED ON DESIGNATED COLLECTOR STREETS (AS SHOWN). IT IS ALSO RECOMMENDED FOR LARGE INSTALLATIONS ON LOCAL STREETS.



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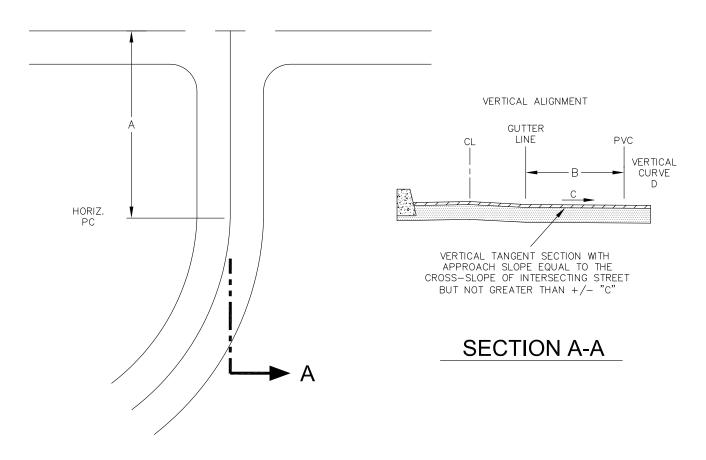
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REVISED BY:	DATE:

CLUSTER POSTAL DELIVERY BOX PARKING BAY

DRAWING NO. T-17

DATE





THRU STREET	STEM STREET	A MIN.	B MIN.	C MAX. SLOPE	D MINIMUM V.C.
LOCAL	LOCAL	0'	0'	6%	50'
COLLECTOR	LOCAL	50'	50'	4%	50'
COLLECTOR	COLLECTOR	100'	100'	3%	100'
ARTERIAL	LOCAL	50'	50'	4%	100'
ARTERIAL	COLLECTOR	100'	100'	2%	125'
ARTERIAL	ARTERIAL	200'	200'	2%	150'



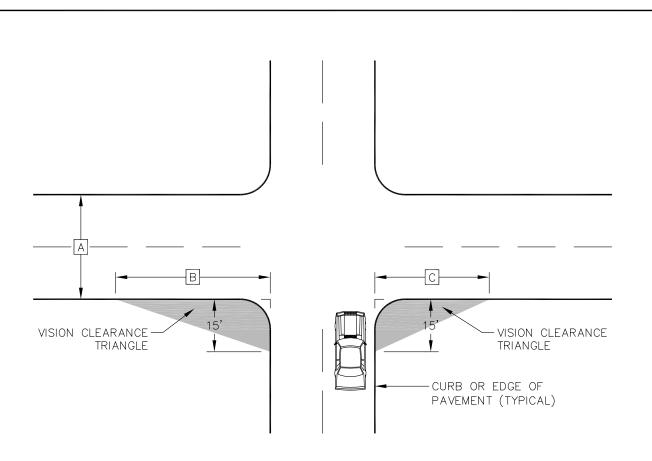
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REVISIONS	;
REVISED BY:	DATE:

"T" INTERSECTION ALIGNMENT STANDARD

DRAWING NO.

T-18



	STREET WIDTH	VISION CLEARANCE TRIA	ANGLE DISTANCE (FEET)
MPH	А	В	С
25	30	140	95
	36	125	90
	40	115	85
	48	165	85
	56	145	80
30	30	170	115
	36	155	110
	40	145	105
	48	200	105
	56	180	100
35	30	205	135
	36	185	130
	40	175	125
	48	240	125
	56	215	120
40	30	235	160
	36	215	150
	40	205	145
	48	275	145
	56	250	135



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SIGHT VISIBILITY STANDARD

DRAWING NO. T-19

DATE