

# CASCADE CHRISTIAN SCHOOL PUYALLUP

PORTION OF THE S 1/2 OF SEC 26 AND N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

**DESCRIPTIONS:**

**PARCEL A:**

THE NORTH HALF OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN, IN PUYALLUP, PIERCE COUNTY, WASHINGTON, EXCEPT THE SOUTH 144 FEET OF THE WEST 150 FEET THEREOF, ALSO EXCEPT THE WEST 30 FEET AS CONVEYED TO PIERCE COUNTY FOR STREET PURPOSES BY DEED RECORDED JUNE 30, 1905 UNDER RECORDING NUMBER 193348.

**PARCEL B:**

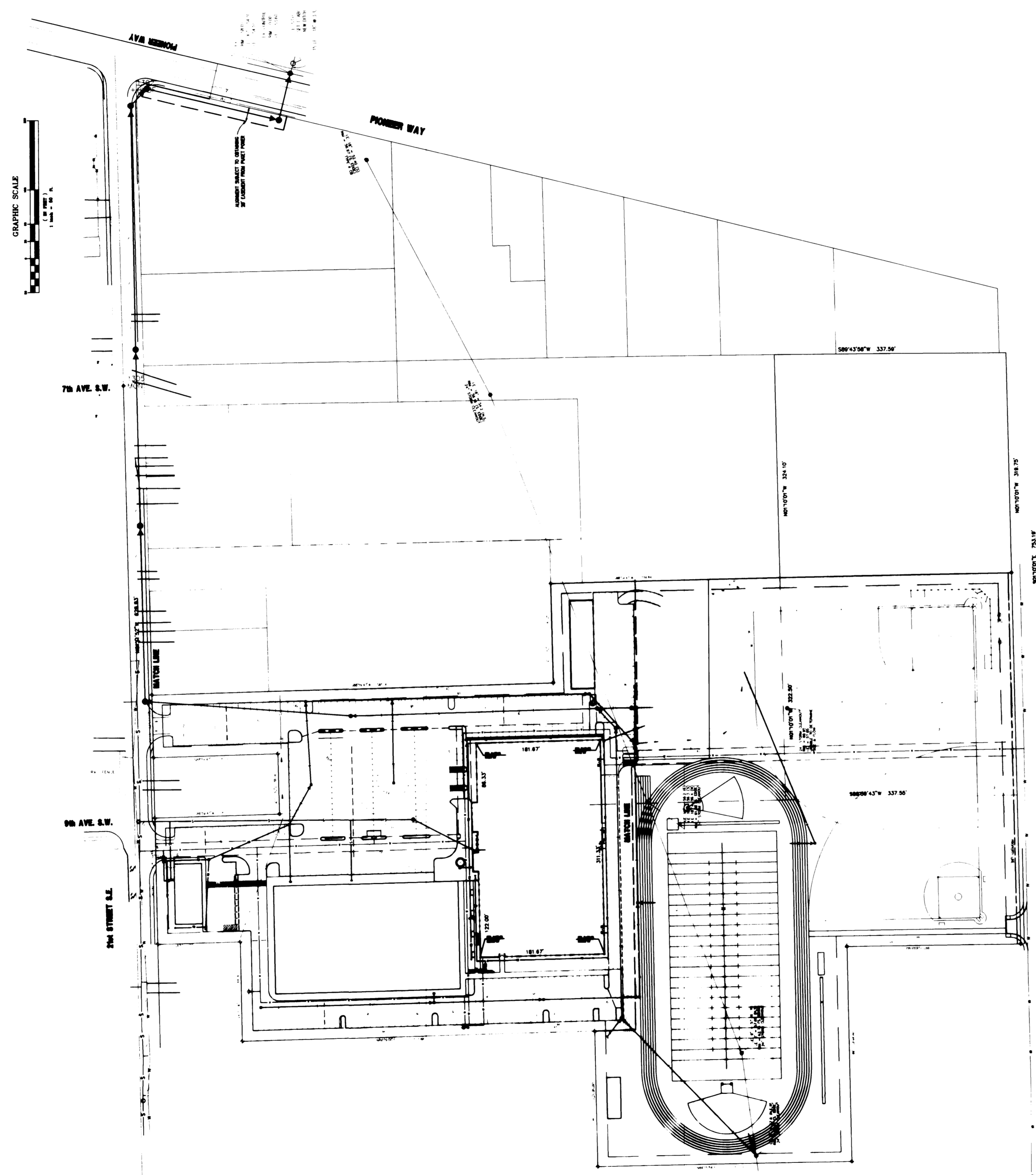
BEGINNING AT A POINT ON THE SOUTH BOUNDARY OF SECTION 26, TOWNSHIP 20 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON, 377.55 FEET WEST OF THE ONE-QUARTER SECTION CORNER IN THE SOUTH BOUNDARY OF SAID SECTION, SAID POINT BEING THE SOUTHWEST CORNER OF PREMISES HERETO CONVEYED TO ALFRED SCHIEFERIT BY DEED RECORDED IN VOLUME 333 OF DEEDS AT PAGE 451, RECORDS OF PIERCE COUNTY, WASHINGTON; THENCE CONTINUING NORTH ALONG THE WEST BOUNDARY OF SCHIEFERIT PREMISES 322.6 FEET; THENCE WEST 363 FEET, MORE OR LESS, TO A POINT 585 FEET EAST OF THE EAST LINE OF 21ST STREET S.E., IN THE CITY OF PUYALLUP; THENCE SOUTH ALONG A LINE PARALLEL WITH AND 585 FEET EAST OF SAID STREET TO A POINT 179.25 FEET NORTH OF THE SOUTH BOUNDARY OF SAID SECTION; THENCE WEST PARALLEL WITH THE SOUTH BOUNDARY OF SAID SECTION, 585 FEET, MORE OR LESS, TO THE EAST BOUNDARY OF 21ST STREET S.E.; THENCE SOUTH 179.25 FEET TO THE SOUTH BOUNDARY OF SAID SECTION; THENCE EAST 948 FEET TO THE POINT OF BEGINNING, EXCEPT THE SOUTH 88 FEET OF THE WEST 181 FEET THEREOF.

**PARCEL C:**

THE NORTH HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN, TOGETHER WITH A PORTION OF THE SOUTH HALF OF THE NORTH HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN, IN PUYALLUP, PIERCE COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT A POST STANDING 328 FEET SOUTH AND 633.9 FEET EAST OF A POINT WHERE THE EAST LINE OF 21ST STREET S.E. INTERSECTS THE NORTH LINE OF SAID SECTION 35, IN THE CITY OF PUYALLUP; THENCE EAST 623.1 FEET TO A POST IN THE WEST LINE OF THE STREET; THENCE SOUTH 198 FEET TO A POST; THENCE NORTH 89'50" WEST 623.1 FEET TO A POST; THENCE NORTH 196.746 FEET TO POINT OF BEGINNING, EXCEPT THE SOUTH 312.48 FEET OF THE EAST 293.06 FEET THEREOF.

ALSO EXCEPT THE EAST 40 FEET FOR 25TH STREET S.E. AS CONVEYED TO PIERCE COUNTY BY DEED RECORDED JUNE 30, 1905 UNDER NUMBER 193348.

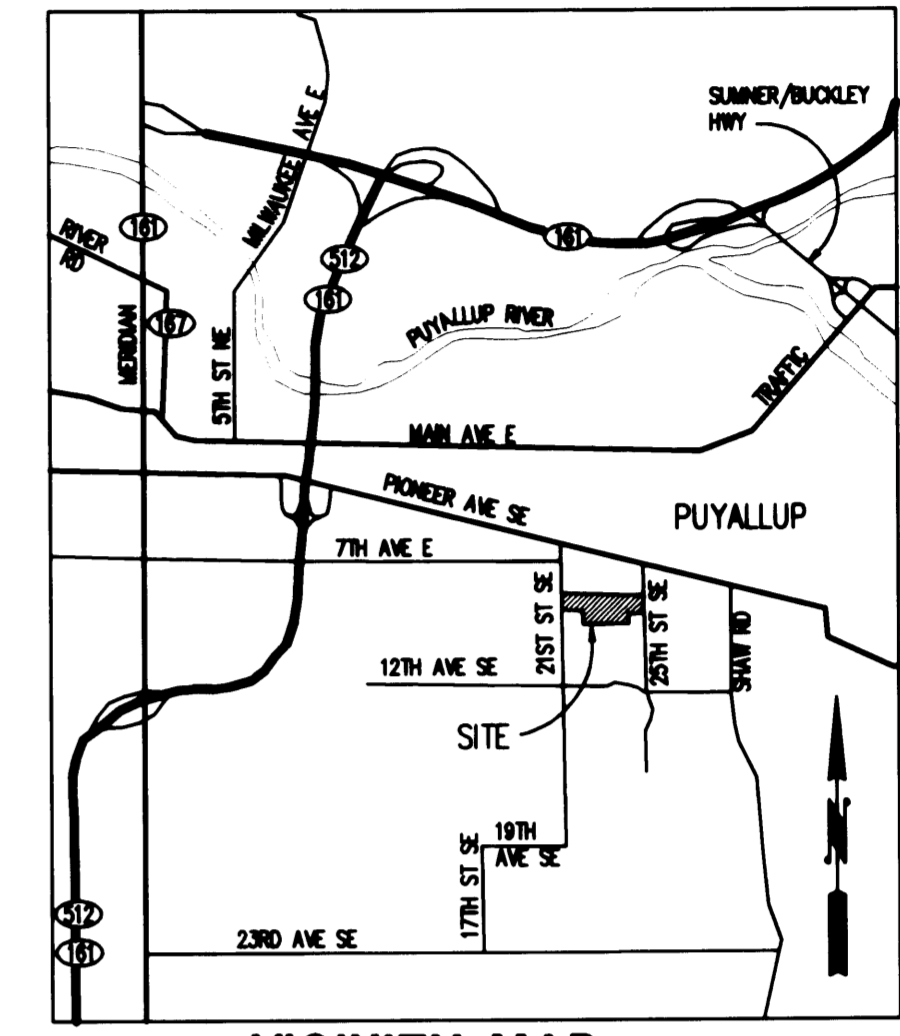


**CONSTRUCTION SEQUENCE**

1. ALL AREAS THAT HAVE BEEN DISTURBED DURING THE GRADING PROCESS THAT WILL NOT BE IMMEDIATELY AFFECTED BY BUILDING CONSTRUCTION AND/OR SITE WORK SHALL BE STABILIZED W/ MIN. 2" OF STRAW. ALL TEMPORARY SWALES, DITCHES, AND SLOPES SHALL BE STABILIZED W. WASHED ROCK AND/OR QUARRY SPALLS AS NECESSARY.
2. BEGIN BUILDING CONSTRUCTION AFTER THE WATER SYSTEM HAS BEEN INSTALLED AND APPROVED. CONSTRUCT ROOF DRAINAGE SYSTEM TO DETENTION POND.
3. PROVIDE DOWNSTREAM STORM CONVEYANCE SYSTEM FROM THE POND TO THE POINT OF DISCHARGE ON THE NORTH SIDE OF PIONEER WAY.
4. CONSTRUCT - MODIFY DETENTION POND, CONSTRUCT ONSITE SEWER SYSTEM, BEGIN FINAL GRADING AND PAVING. CONSTRUCT REMAINING STORM SYSTEM.
5. PROVIDE FIELD GRADING.
6. CONSTRUCT 21ST AND 25TH STREET IMPROVEMENTS.
7. PROVIDE LANDSCAPING AS SHOWN ON THE LANDSCAPE PLANS.
8. REMOVE TEMPORARY EROSION CONTROL MEASURES WHEN PERMANENT MEASURES ARE STABILIZED AND REMOVAL IS AUTHORIZED BY THE CITY INSPECTOR.

**DRAWING INDEX**

- C1 COVER SHEET
  - C2 GRADING AND DRAINAGE
  - C3 GRADING AND DRAINAGE
  - C4 SEWER PLAN & PROFILE, WATER SERVICES
  - C5 GENERAL NOTES AND DETAILS
  - C6 GENERAL NOTES AND DETAILS
  - C7 GENERAL NOTES AND DETAILS
  - C8 GENERAL NOTES AND DETAILS
  - C9 PAVING & SITE DIMENSION PLAN
  - C10 PAVING & SITE DIMENSION PLAN (STREET DESIGN)
  - C11 OFFSITE STORM & 21ST IMPROVEMENTS (NOT COMPLETE)
  - C12 OFFSITE 25TH FRONTAGE IMPROVEMENTS (NOT COMPLETE)
  - C13 OFFSITE PLAN NOTES & DETAILS (NOT COMPLETE)
  - C14 OFFSITE PLAN NOTES & DETAILS (NOT COMPLETE)
- PRELOAD & WATER PLANS APPROVED UNDER PREVIOUS PERMIT ATTACHED FOR REFERENCE.

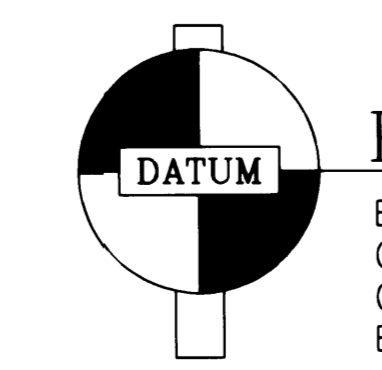
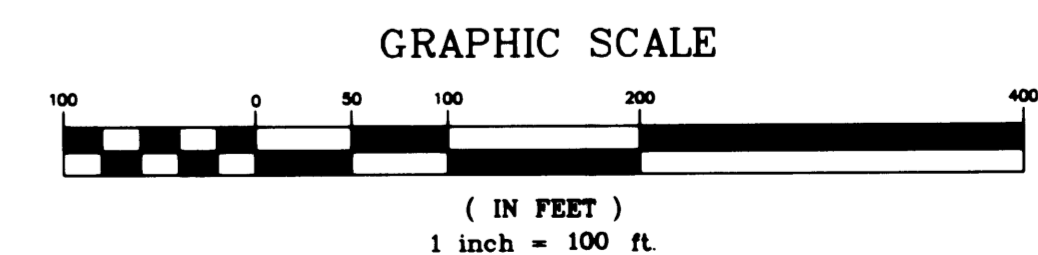


**VICINITY MAP**

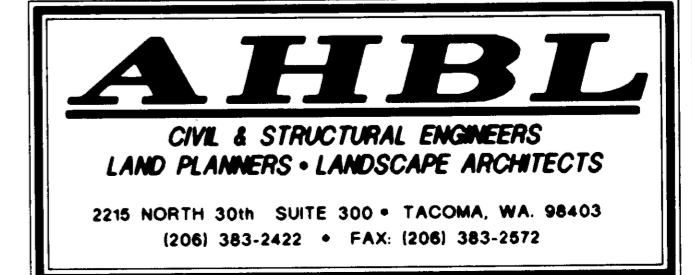
**LEGEND:**

EXISTING	DESCRIPTION	PROPOSED
⊕	WATER METER	⊕
⊕	FIRE HYDRANT	⊕
⊕	WATER VALVE	⊕
— W —	WATER LINE (W)	— W —
— S —	SEWER MANHOLE (SSMH)	— S —
— S —	SEWER LINE (S)	— S —
⊕	CATCH BASIN (CB)	⊕
⊕	STORM MANHOLE (SDMH)	⊕
— D —	STORM LINE (D)	— D —
— RD —	ROOF DRAIN LINE (RD)	— RD —
⊕	POWER POLE	⊕
— P —	POWER LINE (P)	— P —
—	CONTOUR	— 62 —
⊕	SETTLEMENT MARKER	⊕
⊕	GRAVEL CHECK DAM	⊕
—	SILT FENCE	—
—	INTERCEPTOR DITCH	— 65.0 —
—	SPOT ELEVATION	—
—	DRAIN FLOW DIRECTION	—
—	PROPERTY LINE IS ALSO CLEARING LIMIT	—
—	EXTRUDED CURBING	—
—	GRADE BREAK	—

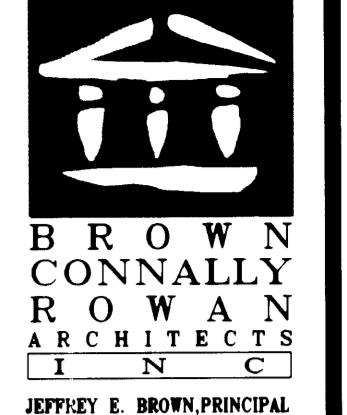
**SURVEY BY:**  
E.J. RODY & SONS, INC.  
8705 CANYON RD. E.  
PUYALLUP, WA 98371  
(206) 539-0766



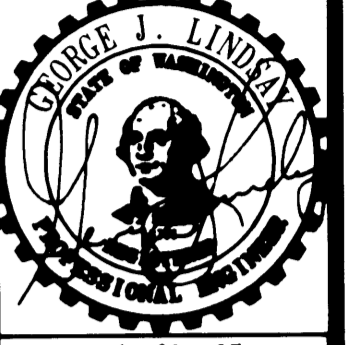
**PIERCE COUNTY**  
BENCHMARK: # 56-1 N.W. CORNER BOTTOM CONCRETE STEP TO RES. ON S.E. QUAD, INT. 25TH ST. S.E. & PIONEER. ELEV = 62.163'



**APPROVED**  
BY: *[Signature]* PE.  
CITY OF PUYALLUP  
CITY ENGINEER  
DATE: 12-13-95  
NOTE:  
THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
ANY ERRORS AND/OR OMISSIONS ARE NOT THE RESPONSIBILITY OF THE CITY OF PUYALLUP.



222 EAST 26th STREET  
SUITE 106  
TACOMA, WA 98421  
TEL: (206) 827-4387  
FAX: (206) 827-4395



COPIES: 7/23/97  
DATE OF DOCUMENT: 12/13/95  
THIS DOCUMENT AND THE SEAL AND SIGNATURE OF THE ENGINEER ARE THE PROPERTY OF BROWN CONNALLY ROWAN ARCHITECTS INC. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN AUTHORIZATION OF AHE.

Drawn By	VIV	Checked By	SS
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Project No.	DATE
CASCADE CHRISTIAN SCHOOLS	DEC 13, 1995

**CASCADE CHRISTIAN SCHOOLS**  
306 NORTH MERIDIAN  
PUYALLUP, WA 98371

**PHASE I CIVIL COVER SHEET FINAL PLANS**

Sheet No. **C1**

**CALL 48 HOURS BEFORE YOU DIG**  
1-800-424-5555

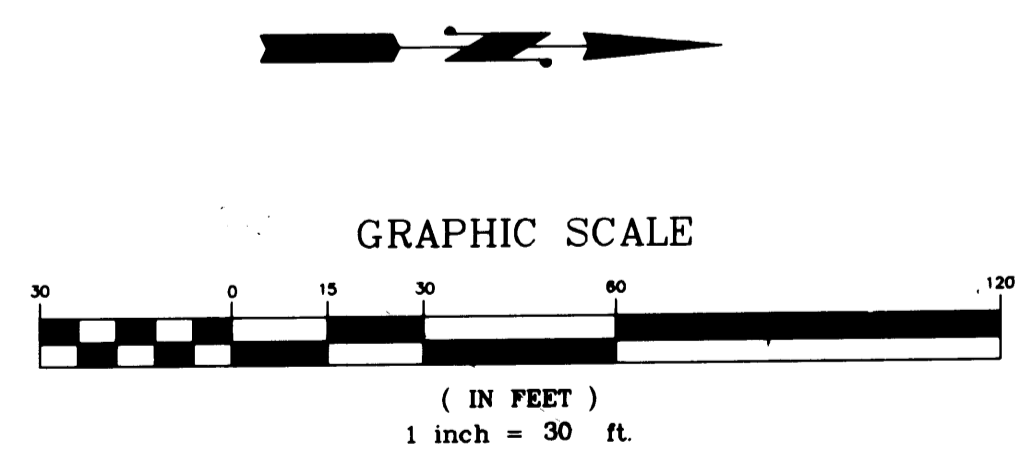
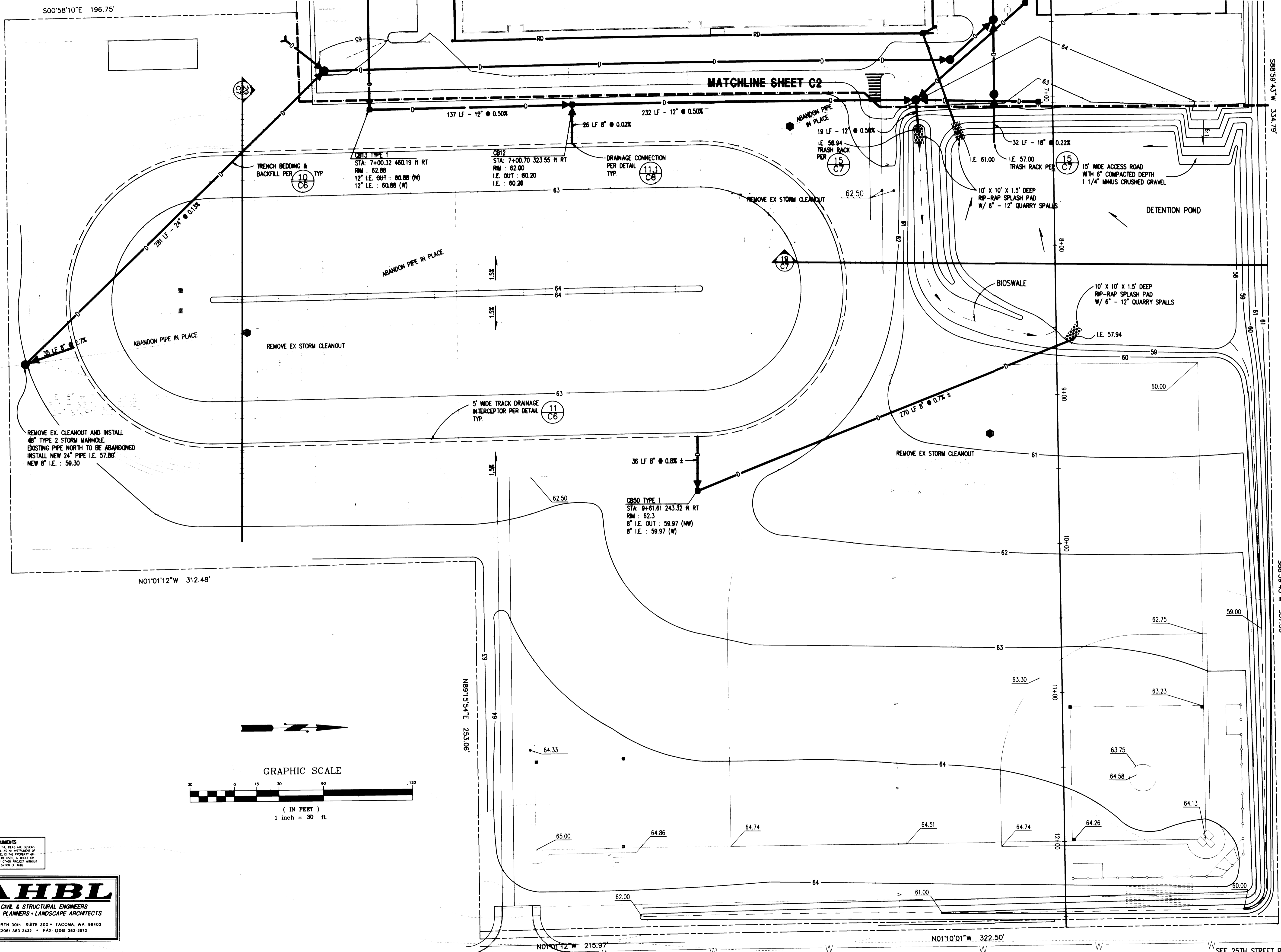


PORTION OF THE S 1/2 OF SEC 26 AND N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 CITY ENGINEER  
 DATE: 12-13-95  
 NOTE:  
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 FROM APPROVAL DATE.  
 ANY ERRORS AND/OR  
 OMISSIONS ARE NOT THE  
 RESPONSIBILITY OF THE  
 CITY OF PUYALLUP.

**BROWN CONNALLY ROWAN ARCHITECTS**  
 JEFFREY E. BROWN, PRINCIPAL  
 222 EAST 26th STREET  
 SUITE 103  
 TACOMA, WA 98421  
 TEL (206)627-4307  
 FAX (206)627-4395

**JOSEPH J. LINDEN**  
 P.E.  
 1/23/97



**AHBL**  
 CIVIL & STRUCTURAL ENGINEERS  
 LAND PLANNERS • LANDSCAPE ARCHITECTS  
 2215 NORTH 30th SUITE 300 • TACOMA, WA 98403  
 (206) 383-2422 • FAX (206) 383-2972

**CALL 48 HOURS BEFORE YOU DIG**  
 1-800-424-5555

**25th STREET S.E.**

SEE 25TH STREET PLANS FOR CONTINUATION

Project No.	13
Date	DEC 13, 1995
Drawn By	VW
Checked By	SS
Project	CASCADE CHRISTIAN SCHOOLS
Location	306 NORTH MERIDIAN PUYALLUP, WA 98371
Drawing Title	GRADING AND DRAINAGE
Sheet No.	C3

PORTION OF THE S 1/2 OF SEC 26 AND N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

APPROVED

By: *[Signature]*  
CITY OF PUYALLUP  
CITY ENGINEER

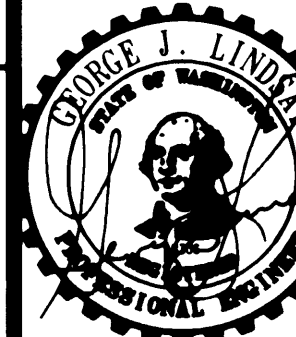
DATE: 12-13-95

NOTE:  
THIS APPROVAL IS  
VOID AFTER 1 YEAR  
FROM APPROVAL DATE.  
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CITY OF PUYALLUP.



**BROWN  
CONNALLY  
ROWAN  
ARCHITECTS**  
I N C  
JEFFREY E. BROWN, PRINCIPAL

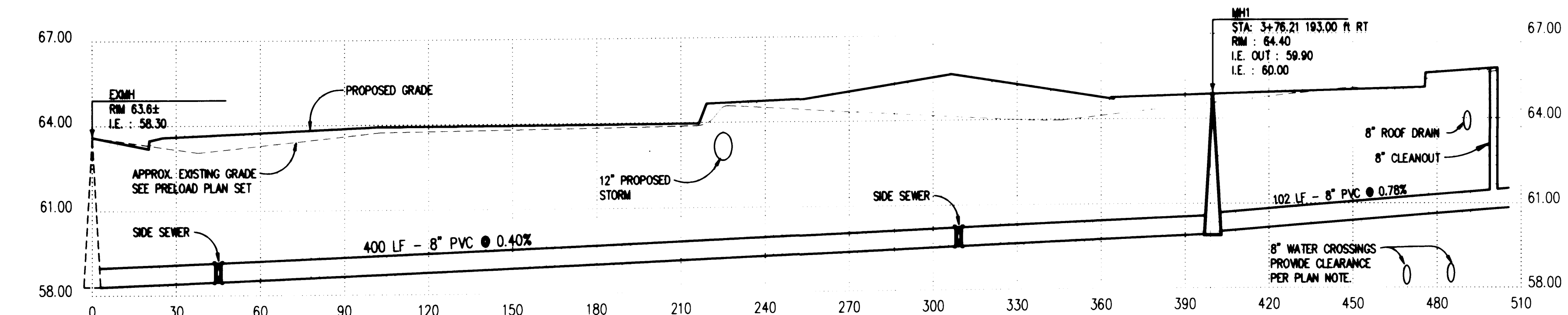
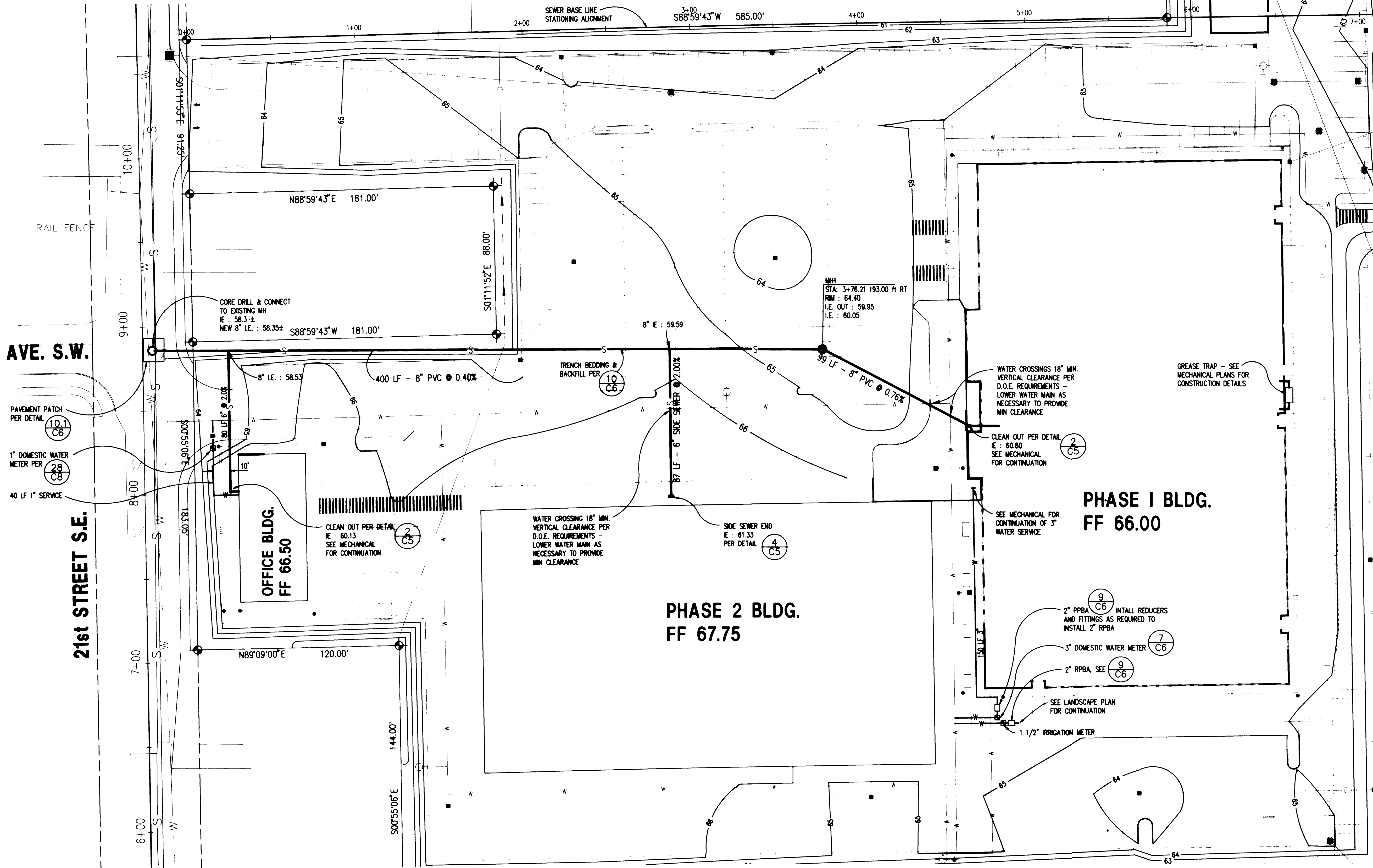
222 EAST 26th STREET  
SUITE 106  
TACOMA, WA 98421  
TEL (206)627-4307  
FAX (206)627-4395



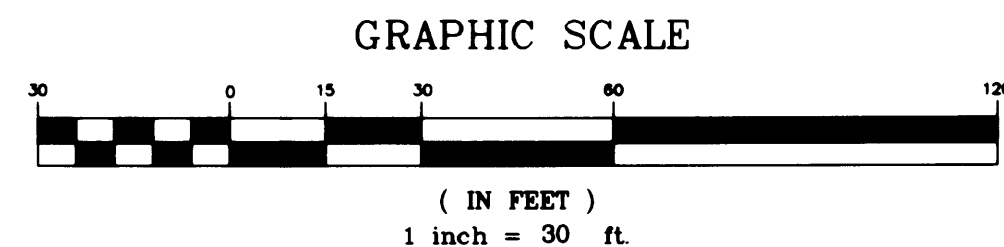
EXPIRES 7/23/97

9th AVE. S.W.

21st STREET S.E.



HORIZONTAL SCALE: 1" = 30 FT  
VERTICAL SCALE: 1" = 3 FT



**NOTE:**  
1. SEE SANITARY SEWER NOTES AND DETAILS ON SHEET C5.  
2. WATER LINE IS EXISTING OR UNDER CONSTRUCTION.  
SEE PRELOAD OR ASBUILT PLANS.

**CALL 48 HOURS  
BEFORE YOU DIG  
1-800-424-5555**

**AHBL**  
CIVIL & STRUCTURAL ENGINEERS  
LAND PLANNERS • LANDSCAPE ARCHITECTS  
2215 NORTH 30th SUITE 300 • TACOMA, WA 98403  
(206) 383-2422 • FAX (206) 383-2572

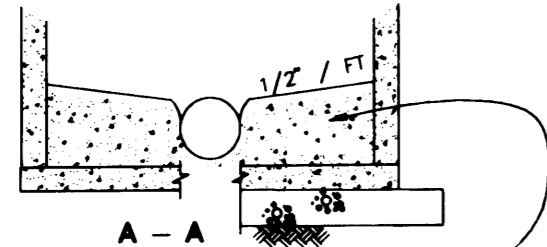
Project: **CASCADE CHRISTIAN  
SCHOOLS**  
306 NORTH MERIDIAN  
PUYALLUP, WA 98371

Drawing Title: **SEWER PLAN AND PROFILE  
WATER SERVICES**

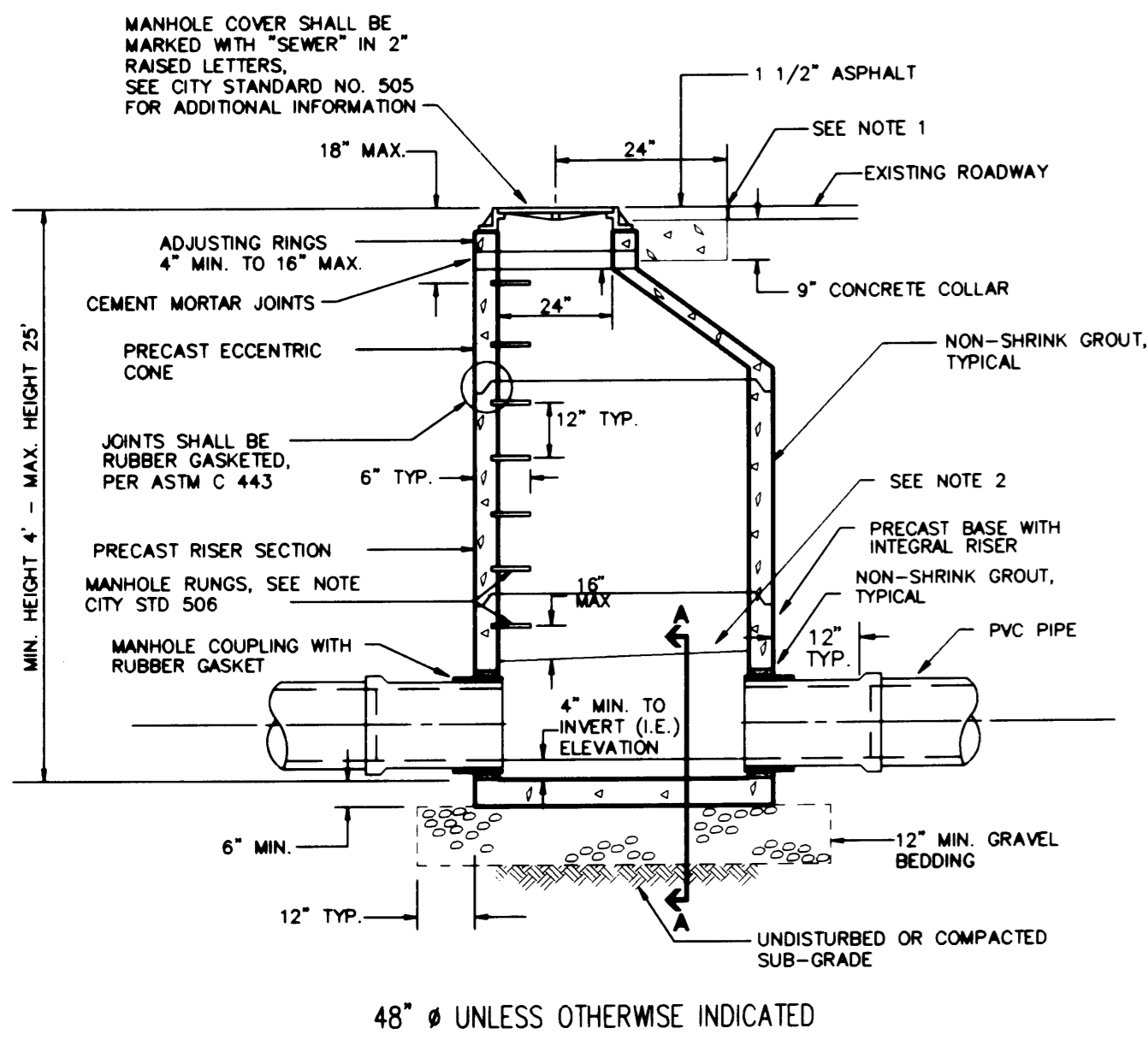
Sheet No: **C4**

**NOTES:**

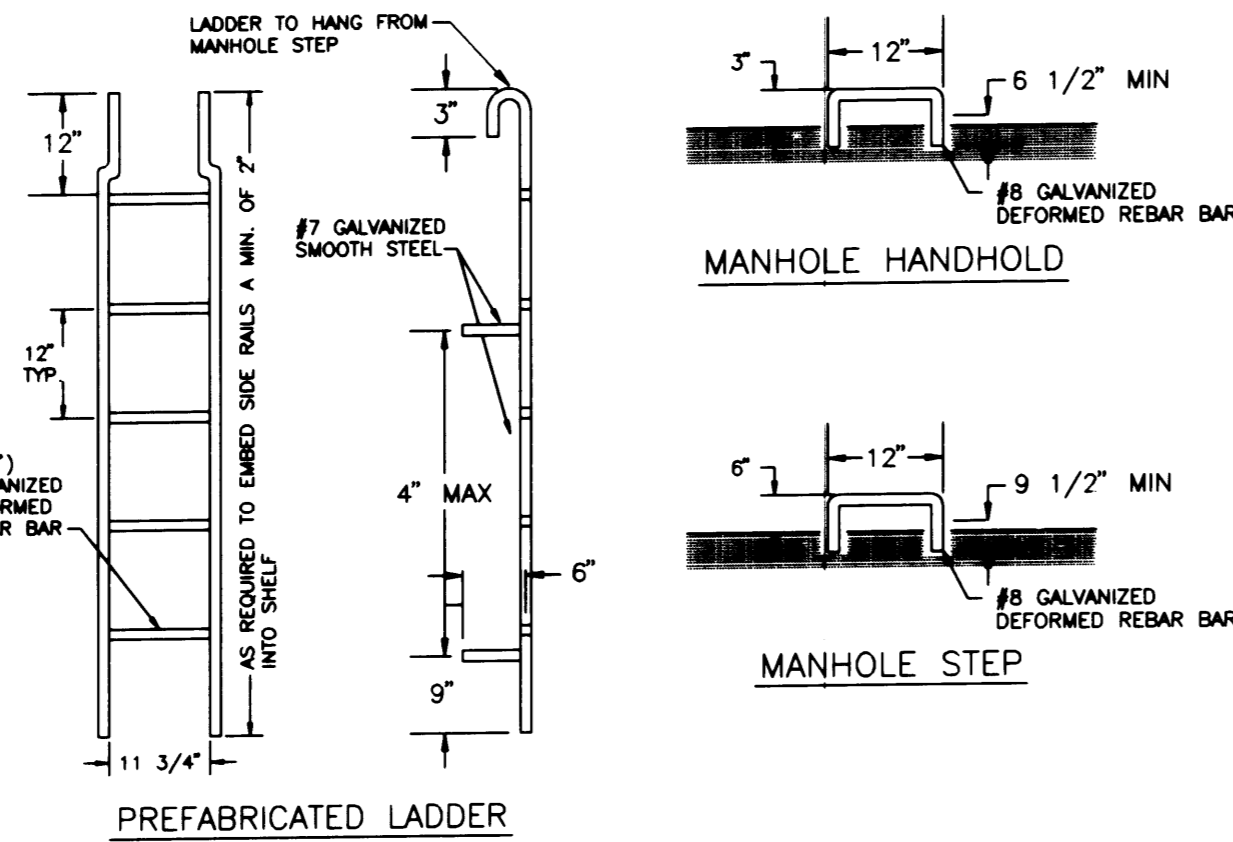
1. NEAT LINE CUTS SHALL BE SEALED AT TOP WITH A HOT PAVING GRADE AND FACE OF CUT TACKED.
2. TOP OF SHELF, SLOPE 1/2" PER FOOT, CONSTRUCT IN FIELD CHANNEL AND SHELF TO THE CROWN OF PIPE.



CONSTRUCT IN FIELD CHANNEL & SHELF TO THE CROWN OF THE PIPE



48" Ø UNLESS OTHERWISE INDICATED

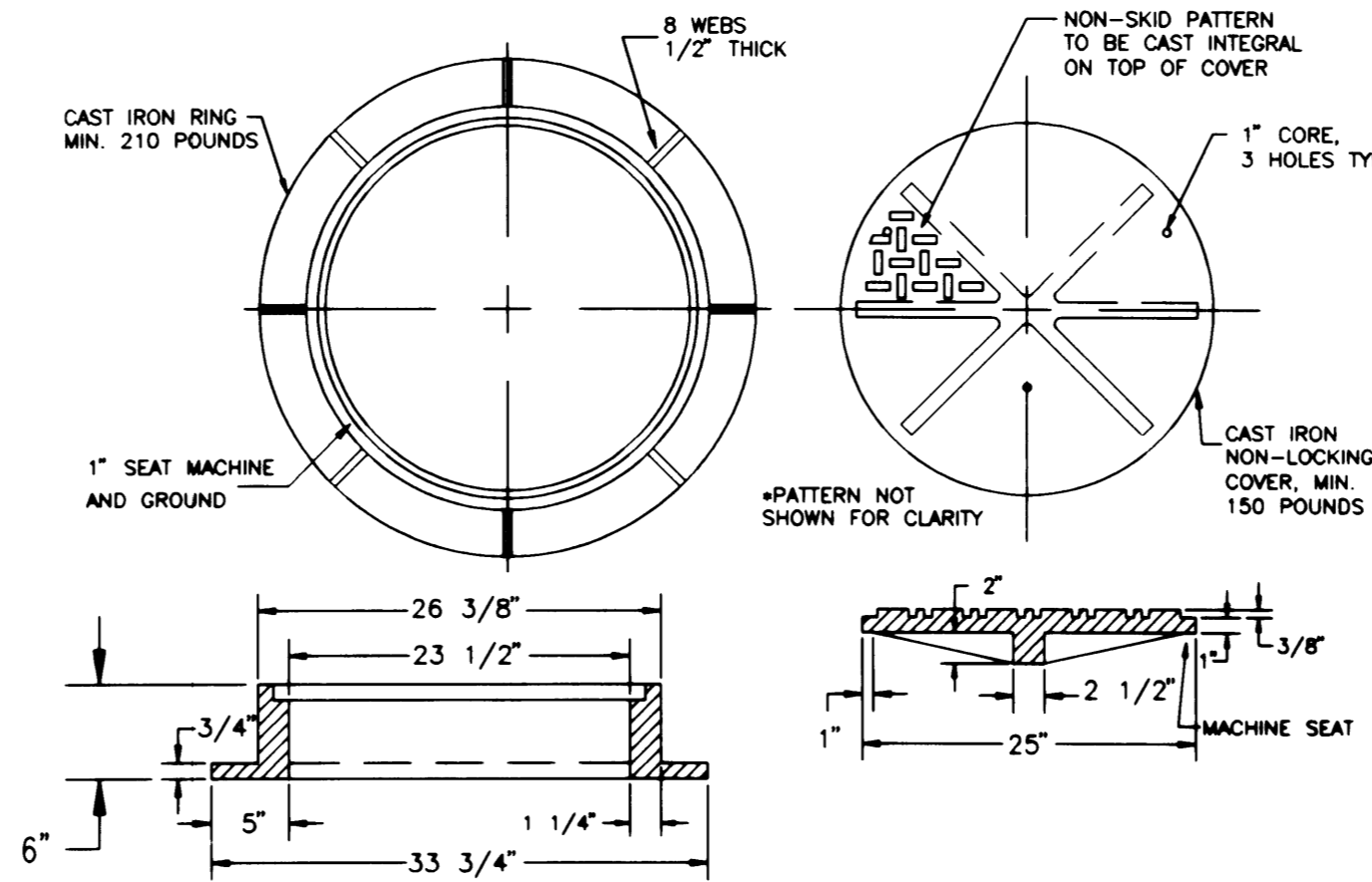


**NOTES:**

1. MANHOLE STEPS AND HANDHOLDS SHALL BE GALVANIZED DEFORMED REBAR BAR (SIZE AS NOTED ABOVE) SHALL CONFORM TO ASTM A 615, GRADE 60, HOT BENT AND GALVANIZED AFTER BENDING. FOR BENDING, THE TEMPERATURE SHALL BE AT LEAST 1,600 F. GALVANIZING SHALL CONFORM TO ASTM A 123. STEPS AND HANDHOLDS DIMENSIONS AND PATTERN SHALL CONFORM TO THIS STANDARD DETAIL.
2. PREFABRICATED LADDERS SHALL BE MADE OF STEEL AND GALVANIZED AFTER FABRICATION. LADDER SHALL CONFORM TO THIS STANDARD DETAIL.
3. LADDERS, STEPS, AND HANDHOLDS SHALL BE GROUTED IN PLACE.
4. MANHOLE STEPS AND HANDHOLDS SHALL BE UNIFORMLY SPACED AT TWELVE (12) INCHES AND SHALL BE VERTICALLY ALIGNED.
5. MANHOLE STEPS, HANDHOLDS, AND LADDER SHALL CONFORM TO SECTION R, ASTM C 478 (AASHTO M-199) AND SHALL MEET ALL WSHA REQUIREMENTS.
6. PENETRATION OF THE OUTER WALL OF A STRUCTURE WITH A LEG OF A STEP, HANDHOLD, OR LADDER IS PROHIBITED.
7. STEPS, HANDHOLDS, LADDER RUNGS, AND FASTENINGS SHALL BE DESIGNED FOR A MINIMUM LIVE LOAD OF A SINGLE CONCENTRATED LOAD OF 300 LB.-FT. (POUND-FOOT).
8. THE LIVE LOADS IMPOSED BY PERSONS OCCUPYING THE STEPS, HANDHOLDS, AND LADDER RUNGS SHALL BE CONSIDERED TO BE CONCENTRATED AT SUCH POINTS AS WILL CAUSE THE MAXIMUM STRESS IN THE STRUCTURAL MEMBER BEING CONSIDERED.
9. THAT PORTION OF THE STEP, HANDHOLD, AND PARTS OF A LADDER PROJECTING INTO THE RISER OR CONE SHALL BE FREE OF SPLINTERS, SHARP EDGES, BURRS, OR PROJECTIONS WHICH MAY BE HAZARDOUS.

**AS-BUILT REQUIREMENTS**

THE CONTRACTOR SHALL MAINTAIN RECORD DRAWING(S) OF ALL UTILITIES SHOWN ON THE PLANS AND EXISTING UTILITIES ENCOUNTERED AS CONSTRUCTION PROGRESSES. THESE DRAWINGS SHALL INDICATE DEVIATIONS FROM THE DESIGN PLAN. REFERENCE DISTANCES BETWEEN THE RELATIVE LOCATION OF THE NEWLY CONSTRUCTED IMPROVEMENTS AND A PERMANENT MARKER SHALL BE OBTAINED. THE LOCATION OF STRUCTURES, VALVES, BENDS, TEES, AND RELATED APPURTENANCES SHALL BE INCLUDED. THESE RECORDS SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER AT ANY TIME DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE THESE RECORD DRAWINGS TO THE ENGINEER IMMEDIATELY UPON COMPLETION OF ALL UTILITY INSTALLATION.



**NOTES FOR: MANHOLE RING AND COVER**

1. Manhole ring and cover in areas of improved rights-of-way shall be a non-locking cover. Manhole ring and cover in areas of unimproved rights-of-way or in easement or as required by the City Engineer shall be Kam-Locking cover. Kam-Locking covers shall have "KamLock" in 1" raised letters on top of the cover adjacent to each pick hole.
2. Manhole ring and cover shall conform to sections 9-05.15 (1), Manhole Ring and Cover, and 9-06.9, Gray Iron Castings of the 1991 Standard Specifications for road, bridge, and municipal construction as prepared by the Washington State Department of Transportation and the Washington State chapter of the American Public Works Association and as revised to read as set forth in these special provisions:
  - a. Manhole ring and cover shall conform to the City of Puyallup's Public Works standard drawing.
  - b. Manhole ring and cover shall conform to the requirements of ASTM A48, Class 30B for cast iron.
  - c. Manufacturer shall certify that the product conforms to the requirements of these specifications.
  - d. All parts of the casting shall be applied with a bituminous coating. The finished coating shall be continuous, smooth, neither brittle when cold nor sticky when exposed to the sun, and shall be strongly adherent to the casting.
  - e. The City shall have the right to require inspection and approval of all castings prior to painting.
  - f. Repair or defects by welding, or by the use of "smooth-on" or similar material will not be permitted.
  - g. Manhole ring and cover shall be free of porosity, shrink cavities, cold shuts or cracks or any surface defects which would impair serviceability.
  - h. Machine finish the horizontal seating surface and inside vertical recessed face of ring, and the horizontal seating surface and vertical outside edge of the cover to the following tolerances:
    - 1) It shall not be possible to rock any cover when it is seated in any portion in its ring.
    - 2) It is desired that the edge of the upper surface of the cover be one-eighth (1/8) inch below the upper surface of the ring when any cover is seated in any position in its ring.
    - 3) In those cases where such alignment is not obtained, the difference in level between the cover and the ring shall not exceed one-eighth (1/8) inch at any point and shall not exceed one-sixteenth (1/16) inch over a total of more than one-quarter (1/4) of the circumference.
    - 4) There shall be not more than one-eighth (1/8) inch side play in any direction between the cover and the ring when any cover is placed in any position in its ring.
  - i. All ring and covers shall be identified by the name or symbol of the manufacturer in a plainly visible location when the ring and cover is installed. The manufacturer's identification and the material identification shall be a minimum one-half (1/2) inch letters recessed to be flush with the adjacent surfaces.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS) WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON CHAPTER, LATEST EDITION UNLESS SUPERSEDED OR AMENDED BY THE "CITY STANDARDS" FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION IN THE CITY OF PUYALLUP.
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERROR AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1-800-424-5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES.
9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARD NO.111.
10. POWER, STREET LIGHT, CABLE AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A TEN-FOOT (10') UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, STORM) OF FIVE FEET (5').
11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON LICENSED PROFESSIONAL CIVIL ENGINEER.
12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
13. CERTIFIED AS-BUILT DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

**GENERAL NOTES:**

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT CITY HALL TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES AND THE CITY OF PUYALLUP. CONTACT THE ENGINEERING DIVISION TO SCHEDULE THE MEETING (841-5481). THE CONTRACTOR IS RESPONSIBLE TO HAVE HIS SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS) WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON CHAPTER, LATEST EDITION UNLESS SUPERSEDED OR AMENDED BY THE "CITY STANDARDS" FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION IN THE CITY OF PUYALLUP.

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERROR AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1-800-424-5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.

8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES.

9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARD NO.111.

10. POWER, STREET LIGHT, CABLE AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A TEN-FOOT (10') UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, STORM) OF FIVE FEET (5').

11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON LICENSED PROFESSIONAL CIVIL ENGINEER.

12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.

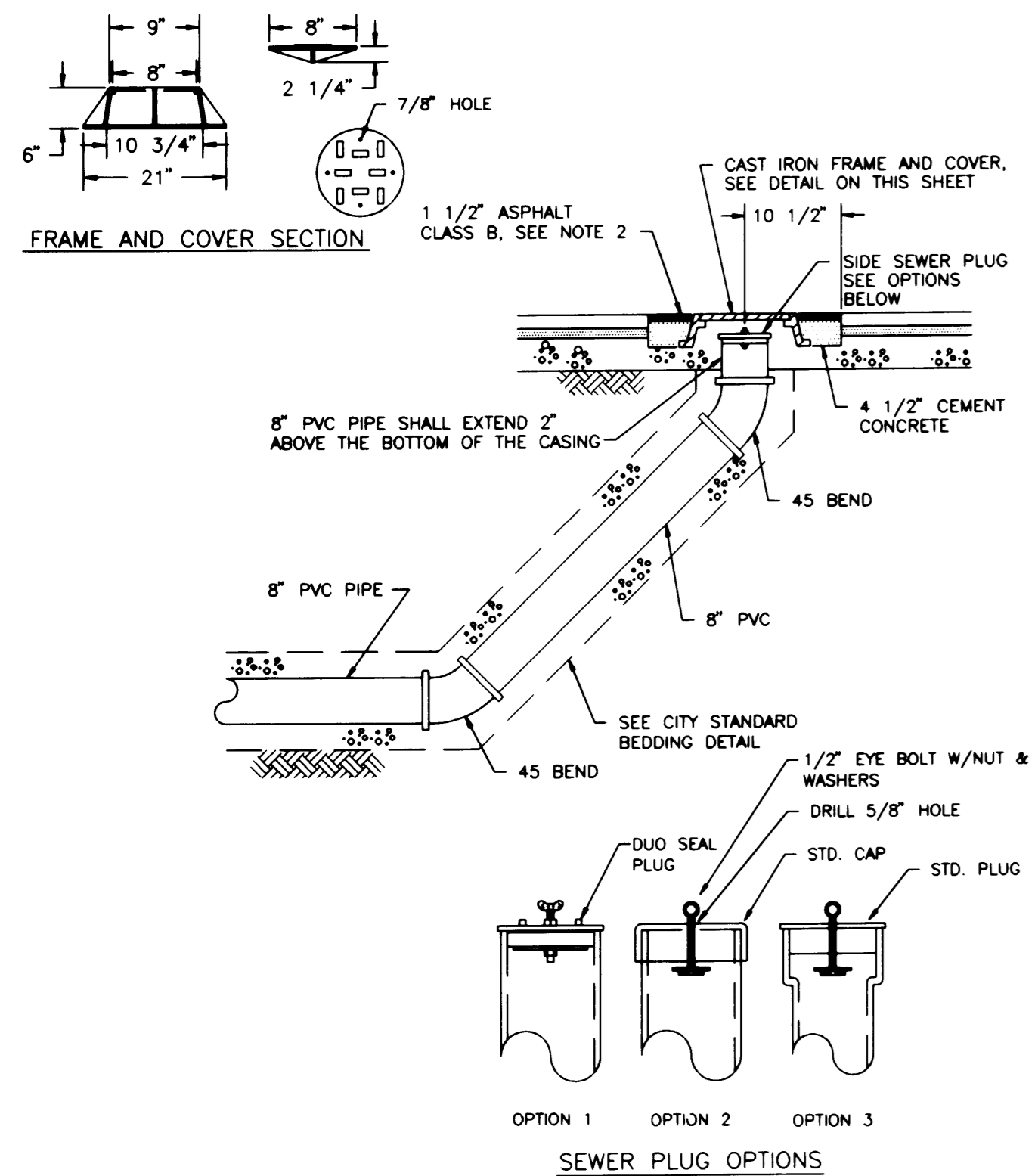
13. CERTIFIED AS-BUILT DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

**SANITARY SEWER NOTES:**

1. MINIMUM GRADE ON ALL SIDE SEWERS SHALL BE TWO PERCENT, MAXIMUM SHALL BE EIGHT PERCENT.
2. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NO. 405. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WSHA).
3. ALL SEWER PIPE SHALL BE PVC SEWER PIPE CONFORMING TO ASTM D-3034, SDR 35 FOR PIPE SIZES 15" AND SMALLER AND ASTM F679 FOR PIPE SIZES 18" - 27", OR DUCTILE IRON PIPE CLASS 51 OR GREATER UNLESS OTHERWISE NOTED. TRENCHING, BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY STANDARD NO. 503. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE PIPE SHALL BE 1.0 FOOT.
4. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO STANDARD NO. 505. COVERS SHALL BE MARKED "SEWER", WITH 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.
5. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARDS NO. 401 AND 402. ALL MANHOLES SHALL BE CHANNIELED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO CITY STANDARD NO. 506.
6. SANITARY SEWER PIPE SHALL BE TEN (10) FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
7. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
8. ALL PUBLIC SANITARY SEWER MAINS SHALL BE TELEVISION INSPECTED PRIOR TO ACCEPTANCE BY THE CITY.
9. AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL SANITARY PIPES SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-17.3(4)(D), E, & F OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
10. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.

**1 SANITARY SEWER MANHOLE**

NOT TO SCALE FROM CITY STD. NO. 401

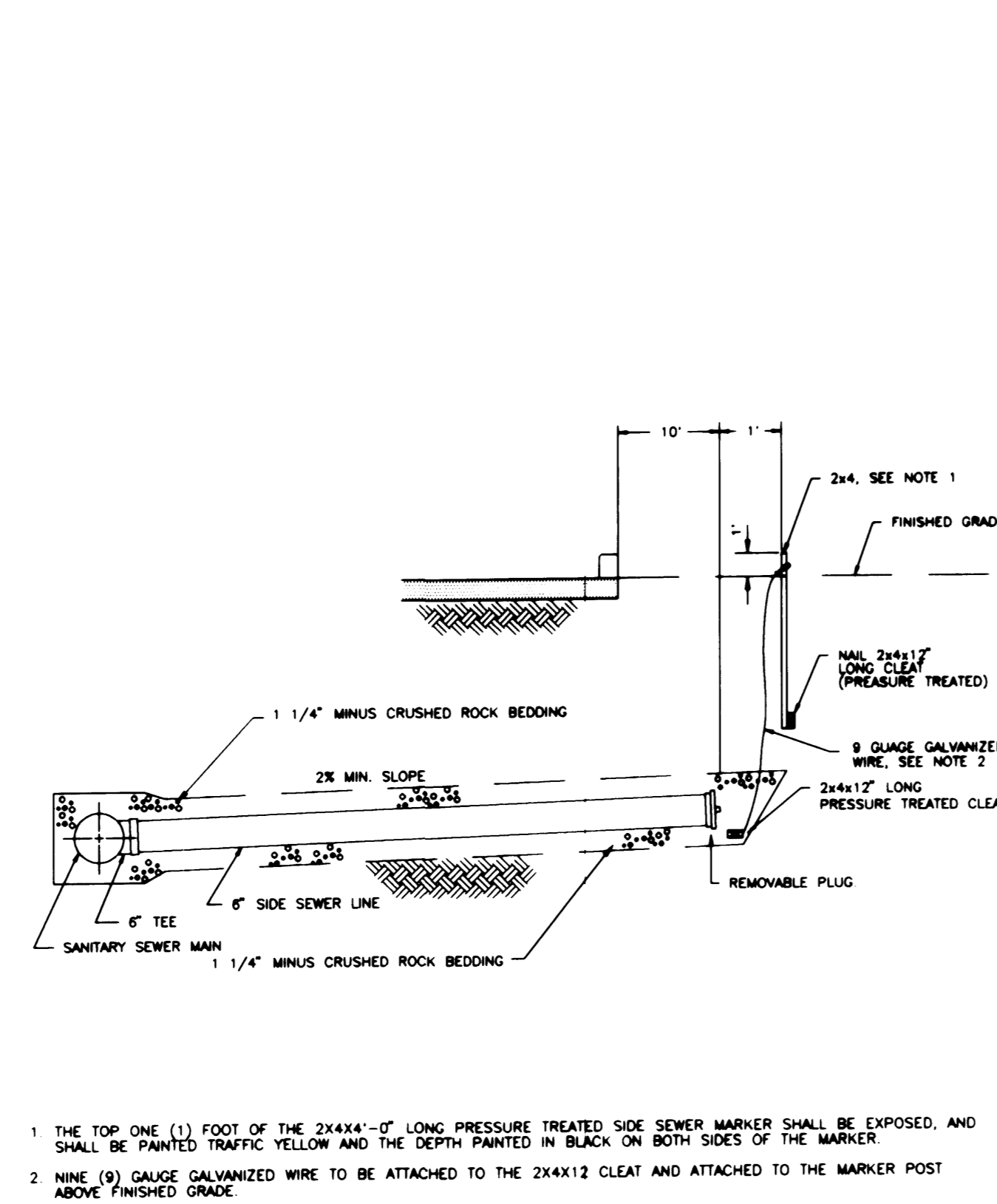


**2 SANITARY SEWER CLEAN OUT**

NOT TO SCALE FROM CITY STD. NO. 404

**3 MANHOLE STEP AND LADDER**

NOT TO SCALE FROM CITY STD. NO. 506



1. THE TOP ONE (1) FOOT OF THE 24x44'-0" LONG PRESSURE TREATED SIDE SEWER MARKER SHALL BE EXPOSED, AND SHALL BE PAINTED TRAFFIC YELLOW AND THE DEPTH PAINTED IN BLACK ON BOTH SIDES OF THE MARKER.
2. NINE (9) GAUGE GALVANIZED WIRE TO BE ATTACHED TO THE 24x41'2" LONG CLEAR (PRESSURE TREATED) REMOVABLE PLUG.

**4 SIDE SEWER**

NOT TO SCALE FROM CITY STD. NO. 405.1

**5 MANHOLE RING AND COVER**

NOT TO SCALE FROM CITY STD. NO. 505.1

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 CITY ENGINEER  
 DATE: 12-13-95  
 NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR THE ERRORS AND/OR OMISSIONS ON THESE PLANS.  
 FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

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 222 EAST 26th STREET SUITE 106 TACOMA, WA 98421  
 TEL (206)627-4307 FAX (206)627-4305

**DRUDGE J. LINDA**  
 PROFESSIONAL ENGINEER  
 1/23/97

Project No. \_\_\_\_\_ Date: DEC 13, 1995  
 Drawn By: WV Checked By: SS

Project: **CASCADE CHRISTIAN SCHOOLS**  
 Drawing Title: **GENERAL NOTES & DETAILS**  
 Sheet No. **C5**  
 PUYALLUP, WA 98371  
 306 NORTH MERIDIAN

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**TRENCH NOTE**

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBLL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

**UTILITY NOTE**

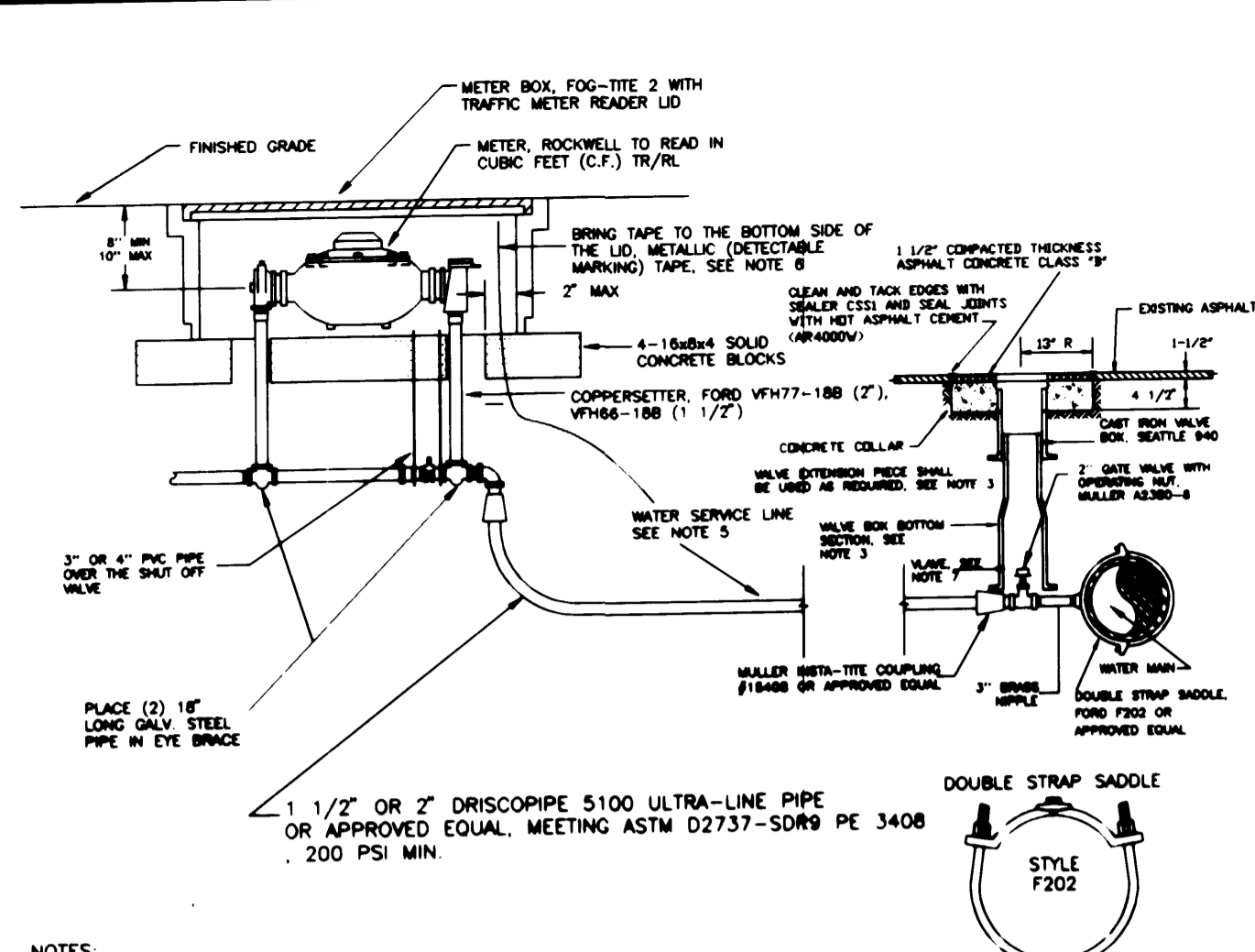
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBLL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

**TOPOGRAPHIC NOTE**

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, AHBLL CANNOT ENSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

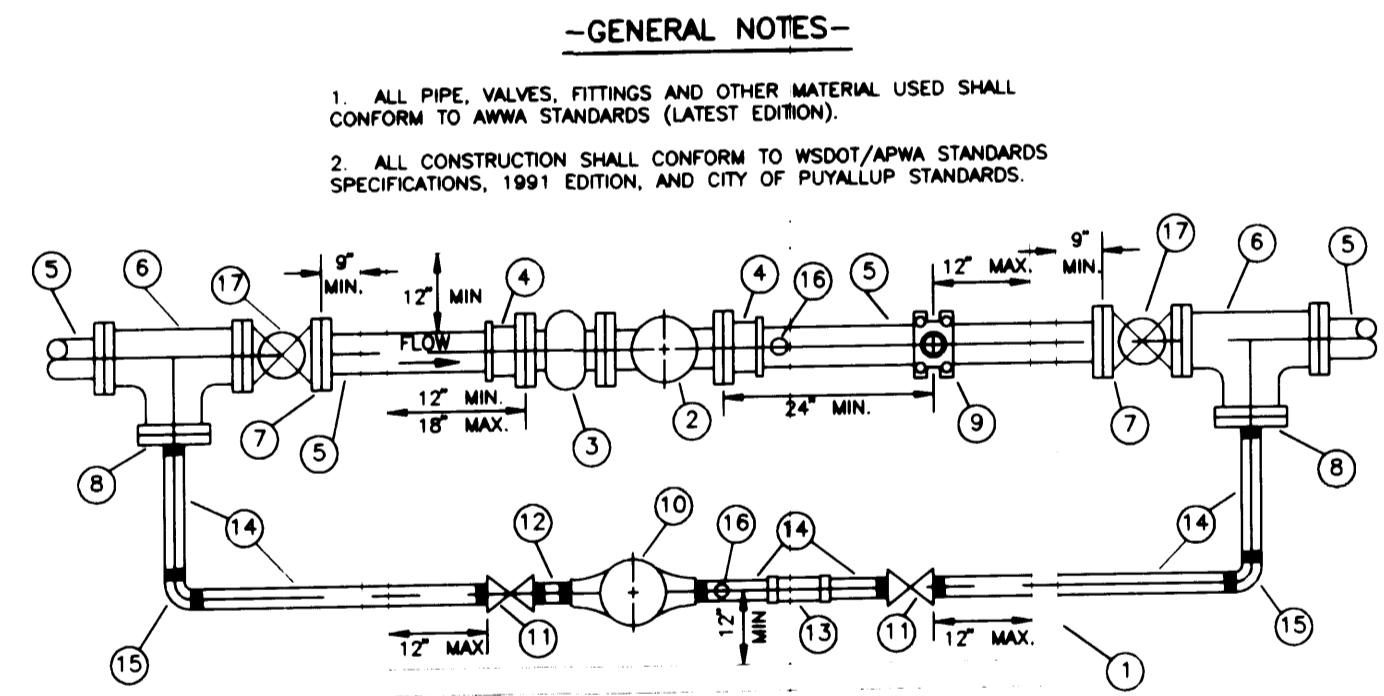
**STORM SEWER NOTES:**

- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO STORM MANHOLE DETAIL ON THIS SHEET. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD NO.205.MANHOLE STEPS.
- MANHOLE RING AND COVER SHALL CONFORM DETAIL SHEET C5. THE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2" RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.
- CATCH BASINS TYPE I-SHALL CONFORM TO CITY STANDARD NO. 202 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5' FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD NO. 204. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-2 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT/APWA STANDARD PLAN B-2A (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- STORM SEWER PIPE SHALL BE ONLY PVC, CONCRETE, OR DUCTILE IRON PIPE. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION. IF PIPE VARIANCE HAS BEEN APPROVED BY THE CITY THEN OTHER PIPE TYPES WILL BE ALLOWED AS SPECIFIED IN THE APPROVED VARIANCE.  
  
PVC PIPE SHALL BE PER ASTM D-3034, SDR 35 FOR PIPE SIZES 15" AND SMALLER AND F679 FOR PIPE SIZES 18" - 27" MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.  
  
CONCRETE PIPE SHALL CONFORM TO THE 1991 WSDOT SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL BE AS RECOMMENDED BY THE MANUFACTURER BUT NOT LESS THAN 3.0 FOOT.  
  
DUCTILE IRON PIPE SHALL BE SPECIAL CLASS 52, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TRENCH DETAIL SHEET C6.
- STORM PIPE SHALL BE A MINIMUM OF TEN (10) FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TELEVISION INSPECTED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
- AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL STORM PIPE SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-04.3(4)D OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
- TYPE CATCH BASINS SHALL CONFORM TO WSDOT STD. PLAN B-1.
- CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD No. 203 AND SHALL BE USED FOR DEPTHS GREATER THAN 5' FROM THE TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.



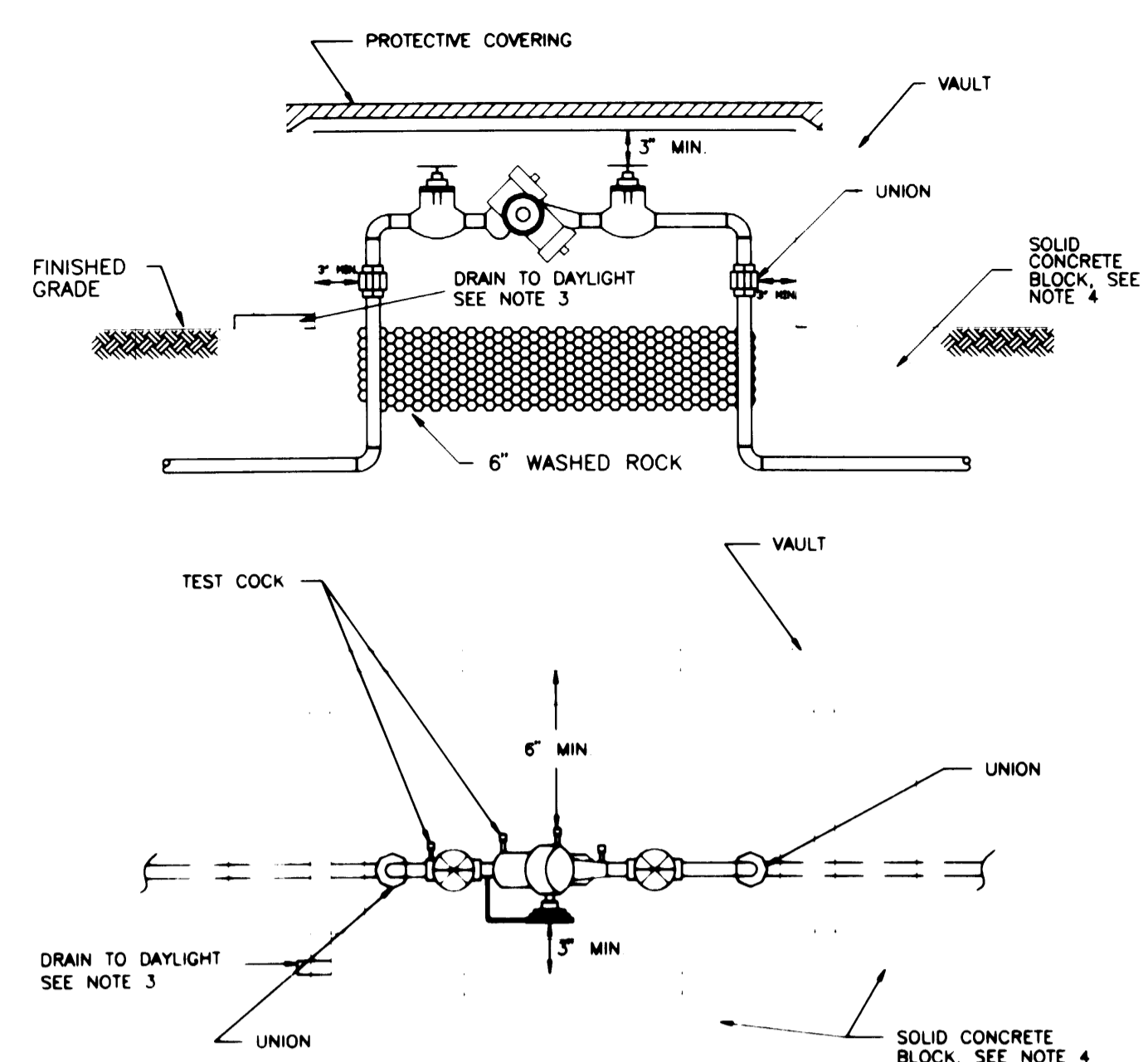
- NOTES:
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
  - THE WATER METER SHALL BE LOCATED IN THE PLANTING STRIP OR ADJACENT TO THE RIGHT-OF-WAY LINE AS DIRECTED BY THE CITY ENGINEER.
  - WATER MAINS SHALL HAVE A MINIMUM COVER OF 42" IN IMPROVED RIGHT-OF-WAY, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND EASEMENTS.
  - ALL COUPLINGS SHALL USE PIPE INSERT STIFFENER.
  - THE WATER SERVICE LINE SHALL HAVE 36" OF COVER BELOW FINISHED GRADE WITHIN THE RIGHT-OF-WAY.
  - METALLIC (DETECTABLE MARKING) TAPE SHALL BE COLOR CODE BLUE AND SHALL BE IMPRINTED CONTINUOUSLY OVER ITS ENTIRE LENGTH IN PERMANENT BLACK INK THE MESSAGE "WATER LINE BURIED BELOW" AND THE WORD "CAUTION" PROMINENTLY SHOWN. TAPE SHALL BE A 2" MINIMUM WIDTH.
  - FOR A 1 1/2" WATER SERVICE A 2" GATE VALVE SHALL BE USED AND INSERT BUSHING SHALL BE USED TO REDUCE THE 2" OPENING DOWN TO 1 1/2".
  - IN NEW CONSTRUCTION THE CONTRACTOR SHALL PLACE A FLANGED TEE IN THE MAIN LINE AT THE POINT OF SERVICE. A 2" FLANGED GATE VALVE AND A THREADED FLANGED REDUCER SHALL BE USED IN LIEU OF THE SADDLE TYPE CONNECTION.
  - VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES IF NECESSARY, AS MANUFACTURED BY THE VANRICH # 940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF IN THE TOP.

**7 1 1/2' AND 2' WATER SERVICE CONNECTION**  
NOT TO SCALE FROM CITY STD. NO. 302



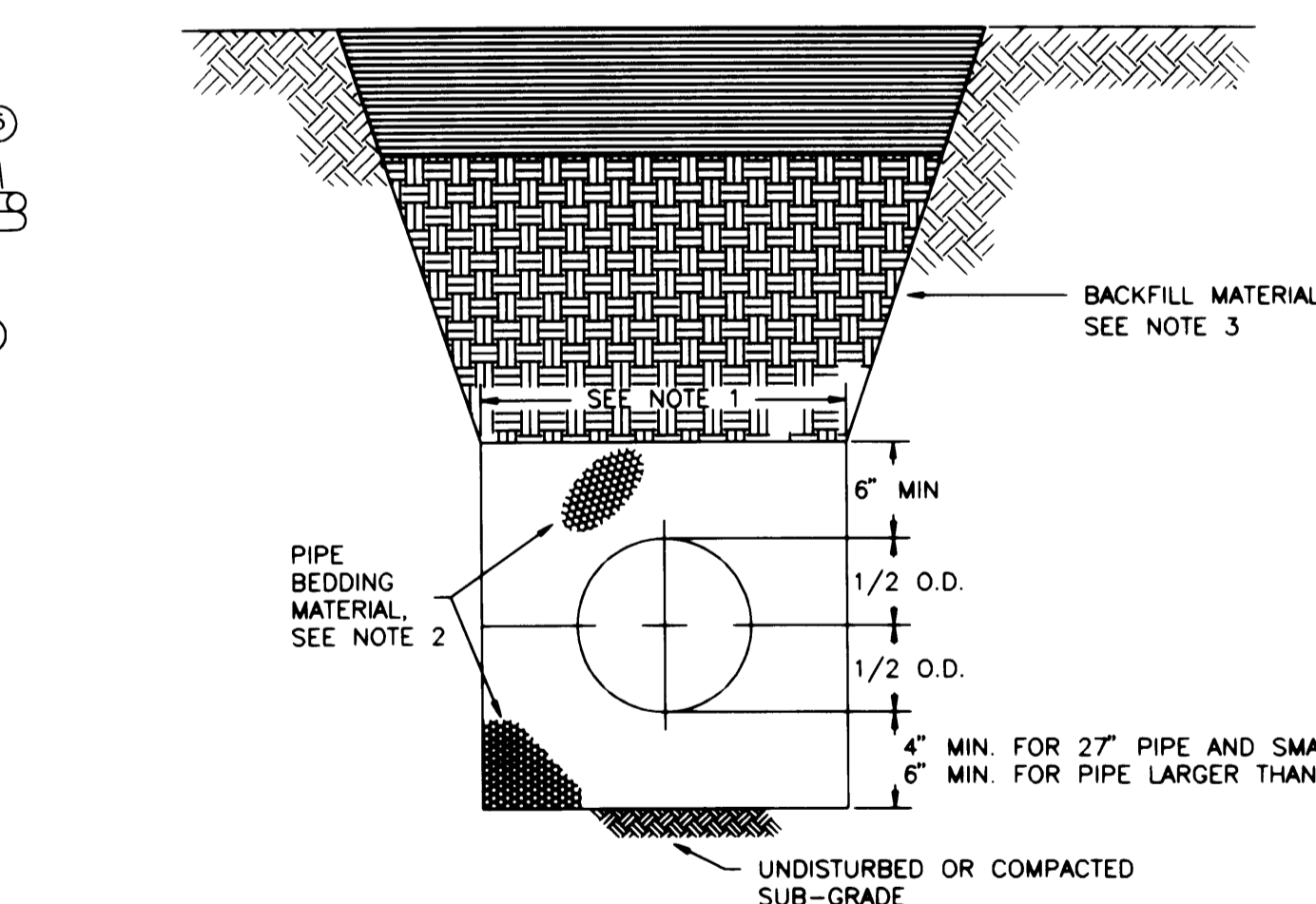
- GENERAL NOTES-**
- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
  - ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, 1991 EDITION, AND CITY OF PUYALLUP STANDARDS.
- VAULT, UTILITY VAULT OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES WITH DIAMOND PLATE HINGED AND SPRING LOCKED STEEL COVER, INCLUDING GALVANIZED VAULT LADDER.
  - ROCKWELL FLANGED TURBO-METER, MODEL W-1000 DR-READS IN CUBIC FEET.
  - ROCKWELL FLANGED STRAINER.
  - ROCKWELL #912 FLANGED COUPLING ADAPTOR.
  - DUCTILE IRON PIPE-CLASS 50.
  - WxWx TEE (M&H/F&G/F&G).
  - GATE VALVE (FLOWING) W/2" THRD. PLUG.
  - BLIND FLANGED W/2" THREADED OUTLET.
  - Wx2" DOUBLE STRAP D.I. SADDLE W/2" THRD. PLUG.
  - 2" ROCKWELL SCREWED TYPE SE METER-READS IN CUBIC FEET.
  - 2" GATE VALVE, KENNEDY FIG. 982 W/HANDWHEEL.
  - 2"x6" THRD. GALV. NIPPLE.
  - 2" COMPRESSION COUPLING, ROCKWELL #522.
  - 2" THRD. GALV. PIPE-CUT TO LENGTH REQUIRED.
  - 2" THRD. GALV. ELL.
  - 2" ADJUSTABLE PIPE SUPPORT-GALVANIZED.
  - VALVE BOX W/WATER MARKED ON LID.
- \* = 3", 4", OR 6" DEPENDING ON SERVICE LINE SIZE  
NOTE: APPROVED EQUAL SUBSTITUTIONS MAY BE MADE FOR MOST MATERIALS, EXCEPT THE METER AND THE PIPE.

**8 3' WATER METER AND VAULT**  
NOT TO SCALE FROM CITY STD. NO. 303



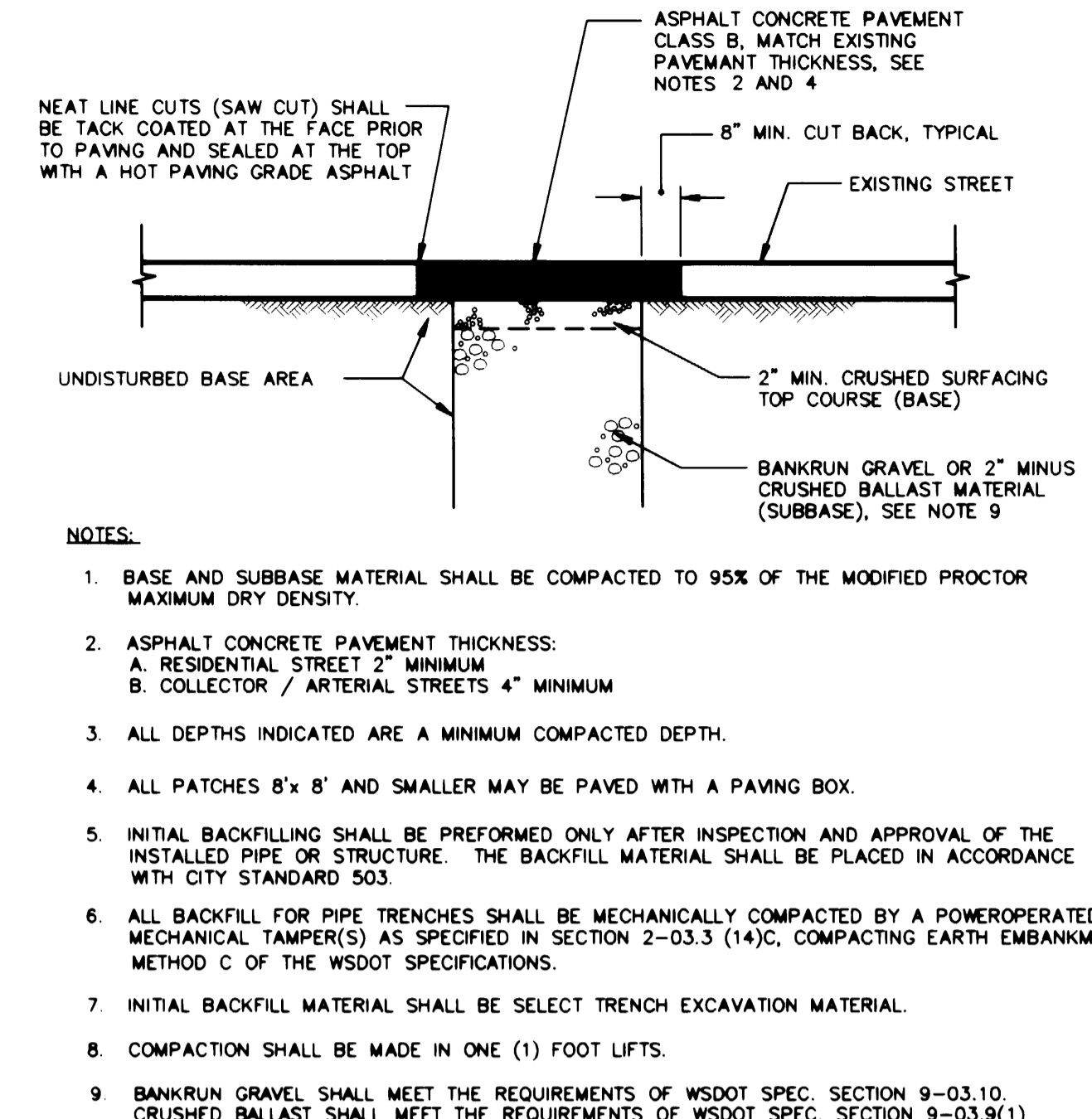
- THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION.
- AN RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL. SEMI-BURIED PITS MAY BE ACCEPTABLE IF THE RPBA IS INSTALLED ABOVE GROUND OR MAXIMUM FLOOD LEVEL IN A VAULT WITH AN APPROVED AIR GAP BETWEEN THE RELIEF VALVE PORT AND A BORE-SIGHTED DAYLIGHT DRAIN.
- THE PROTECTIVE COVERING FOR THE RPBA MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE ABLE TO BE BORE SIGHTED. IT MUST BE INSTALLED ABOVE GROUND OR MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST ALSO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.
- RPBA MUST BE INSTALLED WITHIN A VAULT OR OTHER PROTECTIVE COVERING.
- RPBA MUST BE PROTECTED FROM FREEZING.
- AN RPBA INSTALLED MORE THAN FIVE (5) FEET ABOVE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.
- WHEN THE RPBA IS LOCATED INSIDE A BUILDING IT SHALL BE INSTALLED IN A LOCATION WHERE BOTH THE OCCASIONAL SPITTING FROM THE RELIEF VALVE PORT AND THE POSSIBLE CONSTANT DISCHARGE DURING A FOULED CHECK VALVE SITUATION WILL NOT BE OBJECTIONABLE. AN APPROVED AIR GAP FUNNEL ASSEMBLY, EITHER PROVIDED BY THE MANUFACTURER OR FABRICATED FOR THE SPECIFIC INSTALLATION, MAY BE INSTALLED TO HANDLE THE OCCASIONAL SPITTING OF THE RELIEF VALVE DUE TO PRESSURE FLUCTUATIONS. A LINE FROM THIS FUNNEL ASSEMBLY MAY THEN BE RUN TO AN ADEQUATELY SIZED FLOOR DRAIN OF EQUAL OR GREATER SIZE. IT MUST BE EMPHASIZED THAT THE AIR GAP FUNNEL ASSEMBLY WILL HANDLE ONLY THE OCCASIONAL SPITTING AND WILL NOT CONTROL FLOW IN A CONTINUOUS RELIEF SITUATION.
- GOOD PLUMBING PRACTICE RECOMMENDS A STRAINER WITH BLOWOUT TAPPING AHEAD OF THE RPBA.

**9 2' AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION**  
NOT TO SCALE FROM CITY STD. NO. 310.1

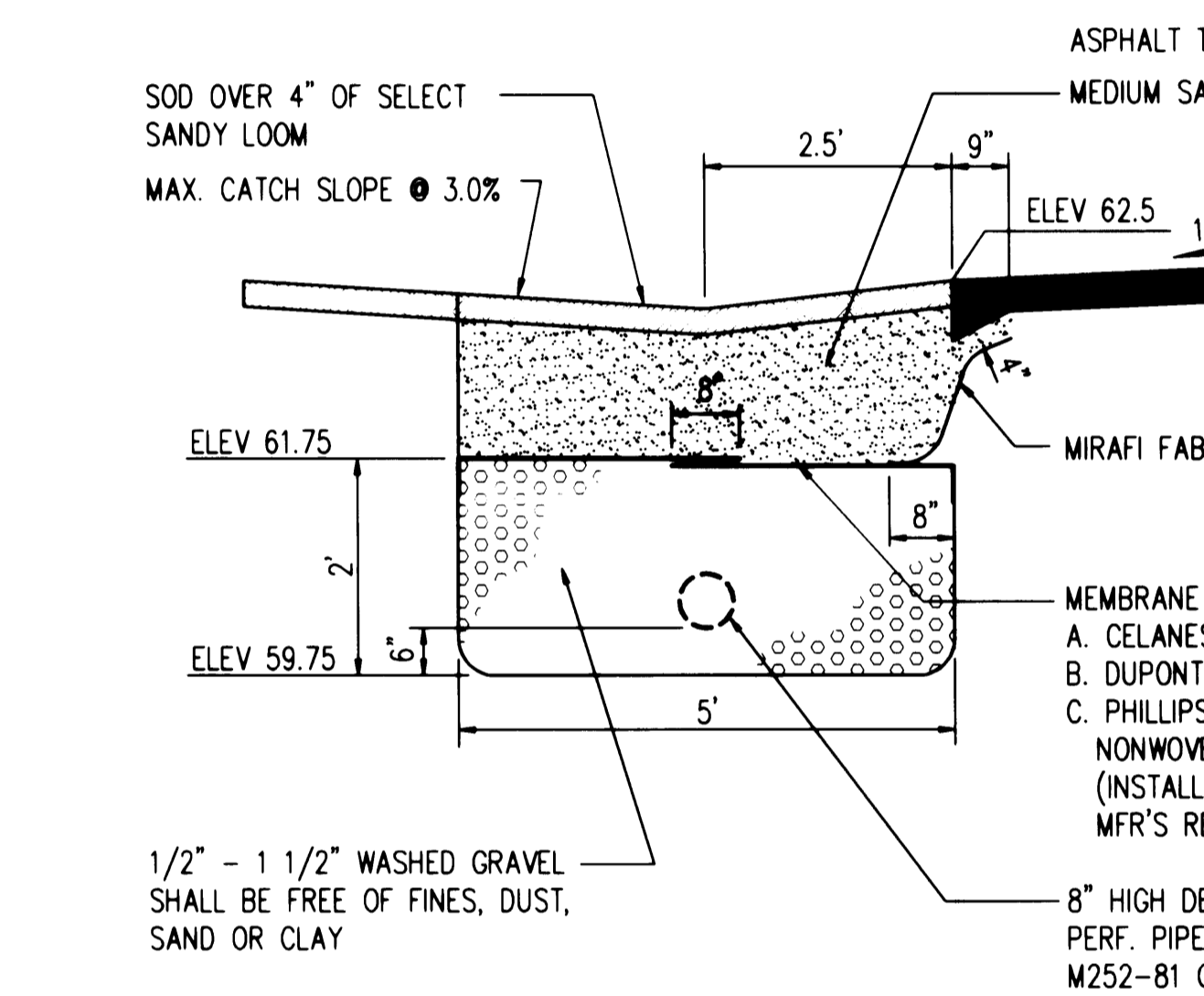


- TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-10.3(7) OF THE WSDOT SPECIFICATIONS.
  - BEDDING MATERIAL FOR RIGID PIPE SHALL BE CRUSHED, PARTIALLY CRUSHED, OR NATURALLY OCCURRING GRANULAR MATERIAL CONFORMING TO THE FOLLOWING GRADATION:
- | SIEVE SIZE      | PERCENT PASSING |
|-----------------|-----------------|
| 1-1/4" SQUARE   | 100             |
| 1/4" SQUARE     | 30-50           |
| U.S. NO. 40     | 3-18            |
| U.S. NO. 200    | 7.0 MAX.        |
| SAND EQUIVALENT | 35 MIN.         |
- ALL PERCENTAGES ARE BY WEIGHT. NATIVE MATERIAL SHALL NOT BE USED FOR PIPE BEDDING.
- GRAVEL BACKFILL FOR ABOVE BEDDING SHALL CONSIST OF CRUSHED, PROCESSED, OR NATURALLY OCCURRING GRANULAR MATERIAL. IT SHALL BE ESSENTIALLY FREE FROM VARIOUS TYPES OF WOOD WASTE OR OTHER EXTRANEOUS OR OBJECTIONABLE MATERIALS. IT SHALL HAVE SUCH CHARACTERISTICS OF SIZE AND SHAPE THAT IT WILL COMPACT READILY.

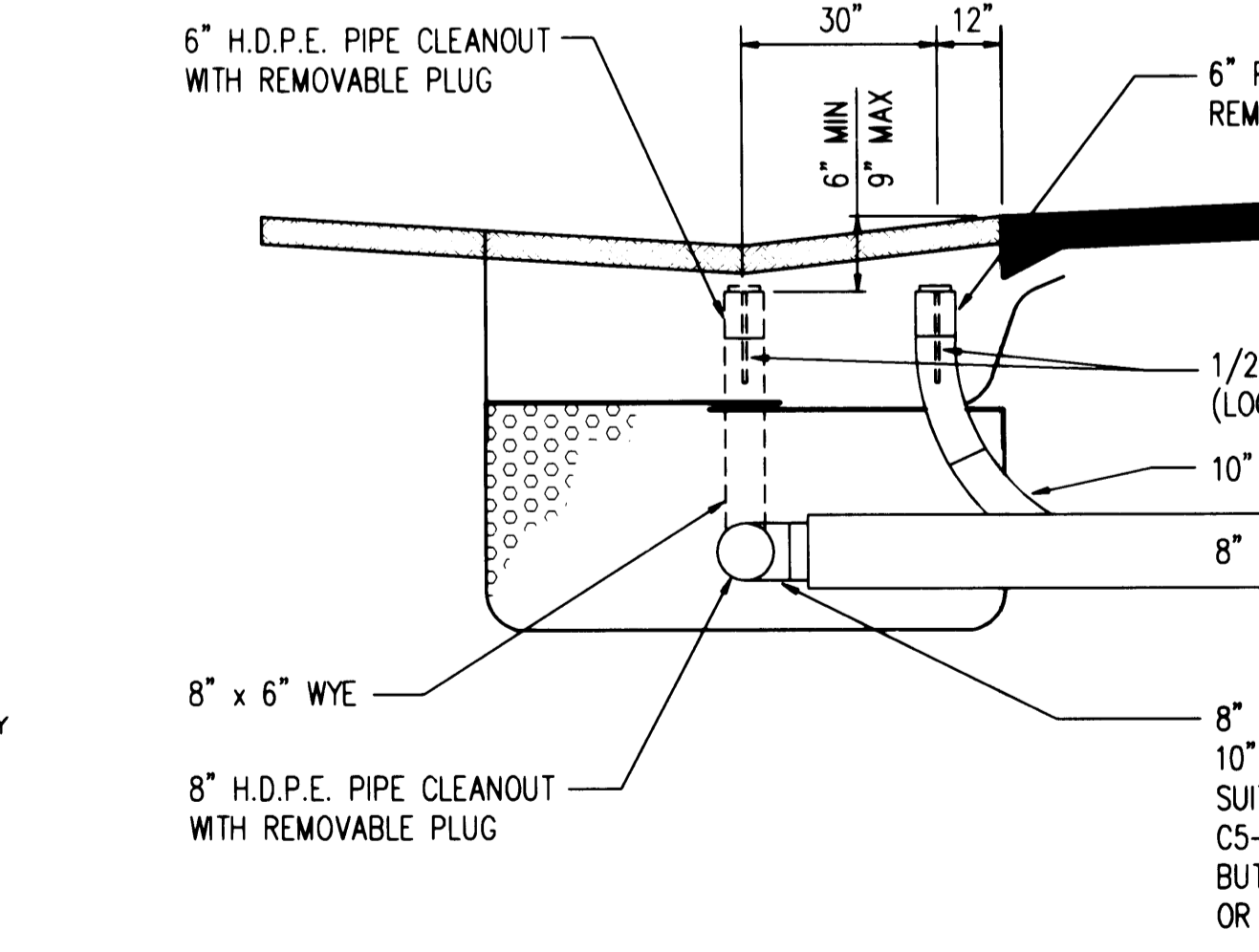
**10 PIPE TRENCHING BEDDING AND BACKFILL**  
NOT TO SCALE FROM CITY STD. NO. 503



**10.1 PAVEMENT PATCH**  
NOT TO SCALE FROM CITY STD. NO. 103



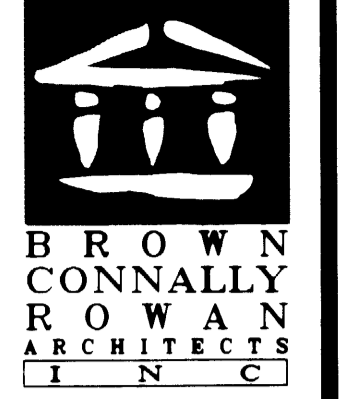
**11 TRACK INTERCEPTOR - TYPICAL SECTION**  
NOT TO SCALE



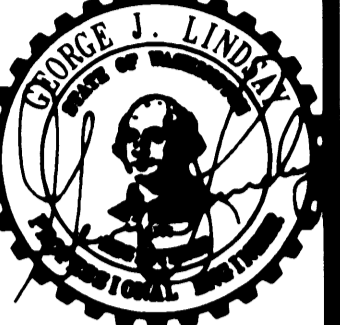
**11.1 TRACK INTERCEPTOR - TYPICAL SECTION**  
NOT TO SCALE

- GRAVEL BACKFILL FOR ABOVE BEDDING SHALL CONSIST OF CRUSHED, PROCESSED, OR NATURALLY OCCURRING GRANULAR MATERIAL. IT SHALL BE ESSENTIALLY FREE FROM VARIOUS TYPES OF WOOD WASTE OR OTHER EXTRANEOUS OR OBJECTIONABLE MATERIALS. IT SHALL HAVE SUCH CHARACTERISTICS OF SIZE AND SHAPE THAT IT WILL COMPACT READILY.

**APPROVED**  
By: *[Signature]*  
CITY OF PUYALLUP  
CITY ENGINEER  
DATE: 12-13-95  
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR THE ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.



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JEFFREY E. BROWN, PRINCIPAL  
222 EAST 26th STREET  
SUITE 106  
TACOMA, WA 98421  
TEL (206)627-4387  
FAX (206)627-4385



OPNS 1/23/97

Drawn By: WV  
Checked By: SS  
Project No.:  
Date: DEC 13, 1995  
Revision:  
Scale:

Project Name:  
Project No.:  
Date: DEC 13, 1995  
Scale:

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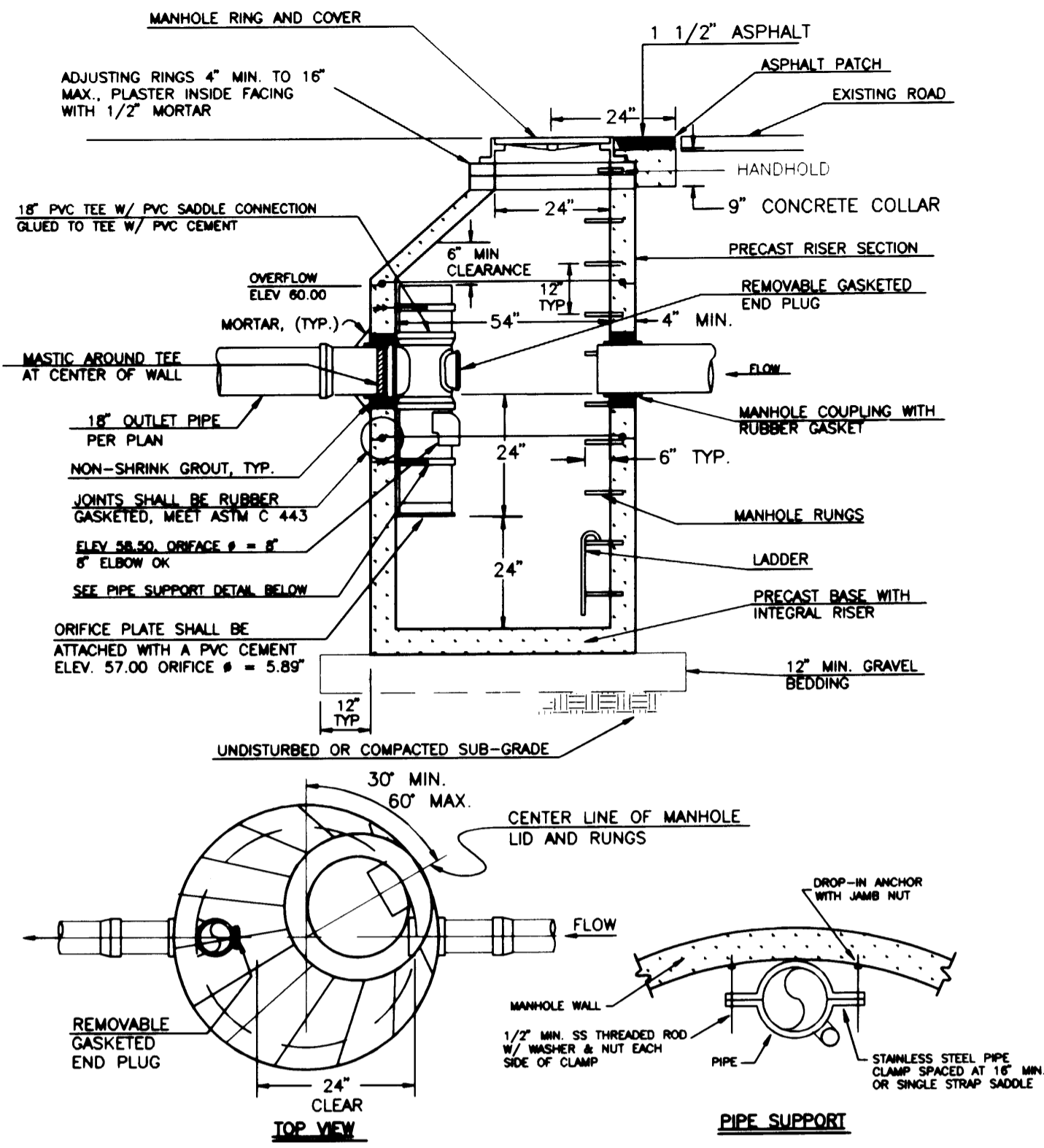
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**C6**

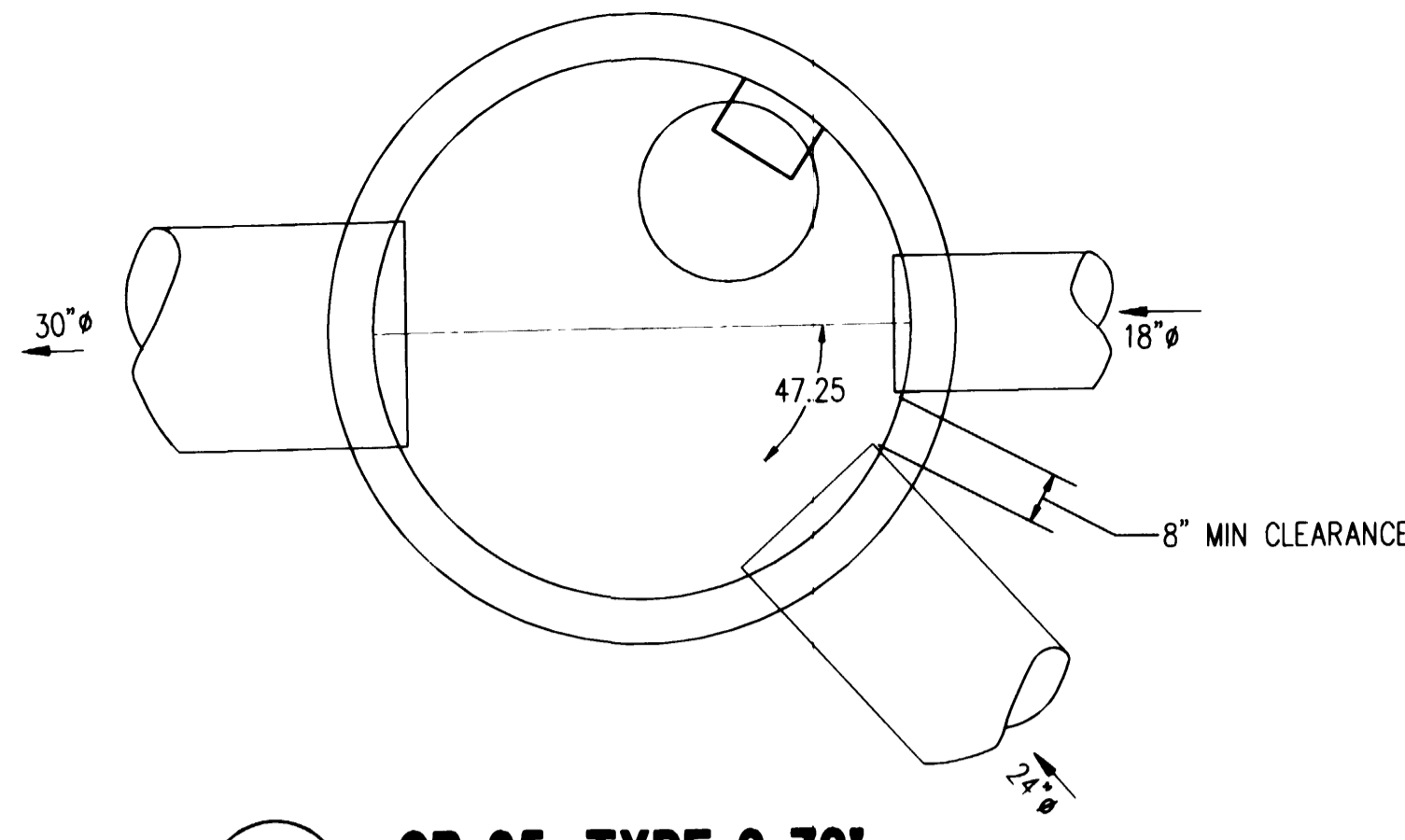
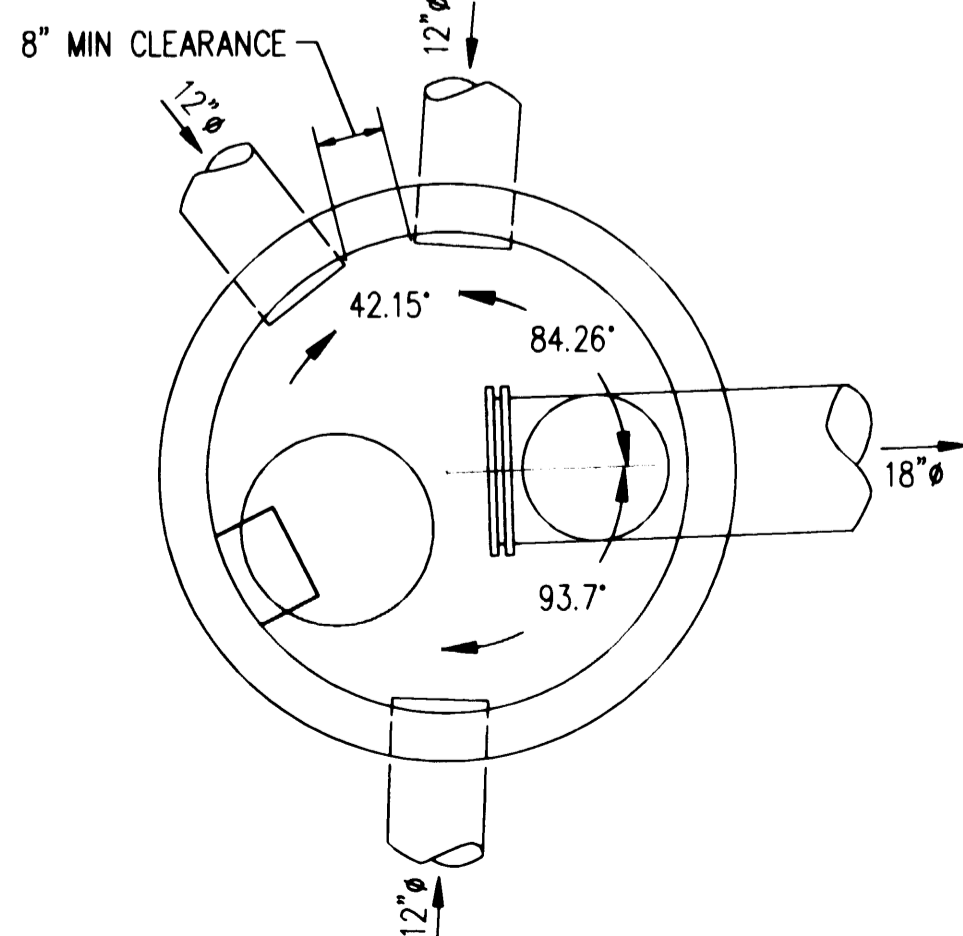
MANHOLE SHALL BE INSTALLED IN ACCORDANCE WITH STORM MANHOLE DETAIL 13



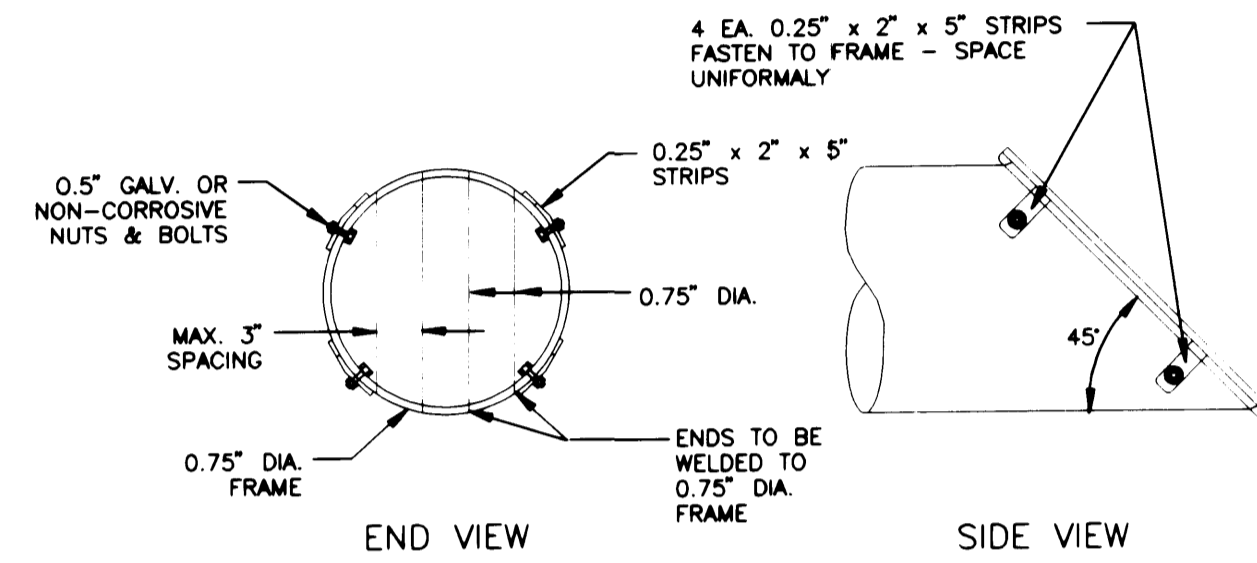
**NOTES FOR FLOW CONTROL MANHOLE:**

- NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
- MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASHTO M-199) AND MEET ALL WISHA REQUIREMENTS. MANHOLE RUNGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A RUNG LEG IS PROHIBITED. SEE MANHOLE STEP AND LADDER DETAIL SHEET CS.
- PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
- PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
- FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS. MORTARED, DRY-PAKED, OR CAST-IN-PLACE JOINTS WILL BE PERMITTED FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO OR THROUGH SAID MANHOLES. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
- THE COVER ON THE MANHOLE SHALL BE MARKED WITH "STORM" OR "DRAIN" IN TWO (2) INCH RAISED LETTERS. SEE MANHOLE RING AND COVER DETAIL.
- STAINLESS STEEL PIPE CLAMP WITH 1/2" DIAMETER STAINLESS STEEL THREADED ROD WITH WASHER AND NUT EACH SIDE OF CLAMP. PROVIDE 1/2" DIAMETER DROP-IN ANCHOR WITH JAMB NUT AT WALL. PIPE CLAMPS SHALL BE PLACED AT SIXTEEN (16) INCHES ON CENTER.
- FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.

**12 FLOW CONTROL MANHOLE**  
NOT TO SCALE FROM CITY STD. NO. 205.2



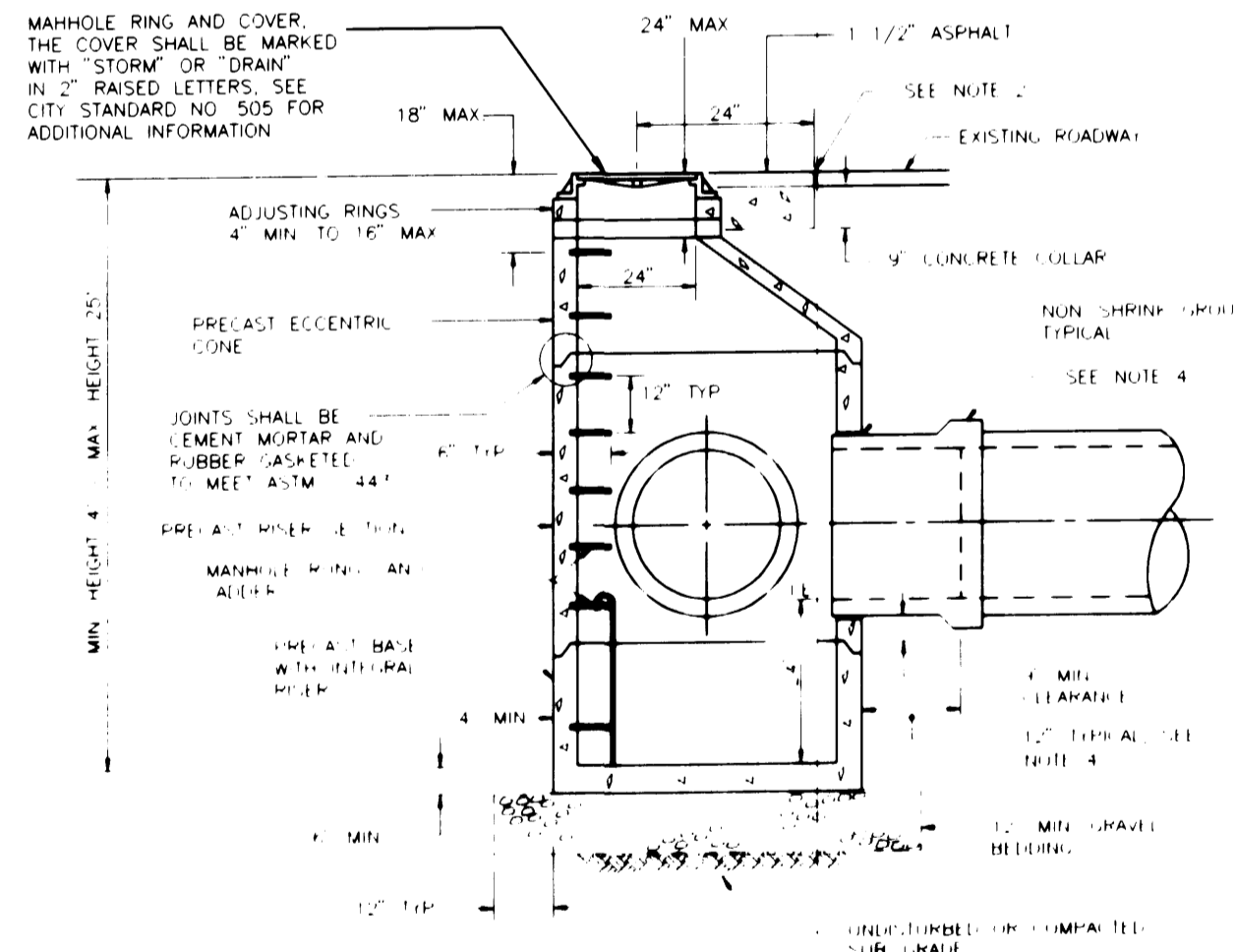
**14 CB 25, TYPE 2 72'**  
PLAN VIEW SCALE 1" = 2'



**NOTES:**

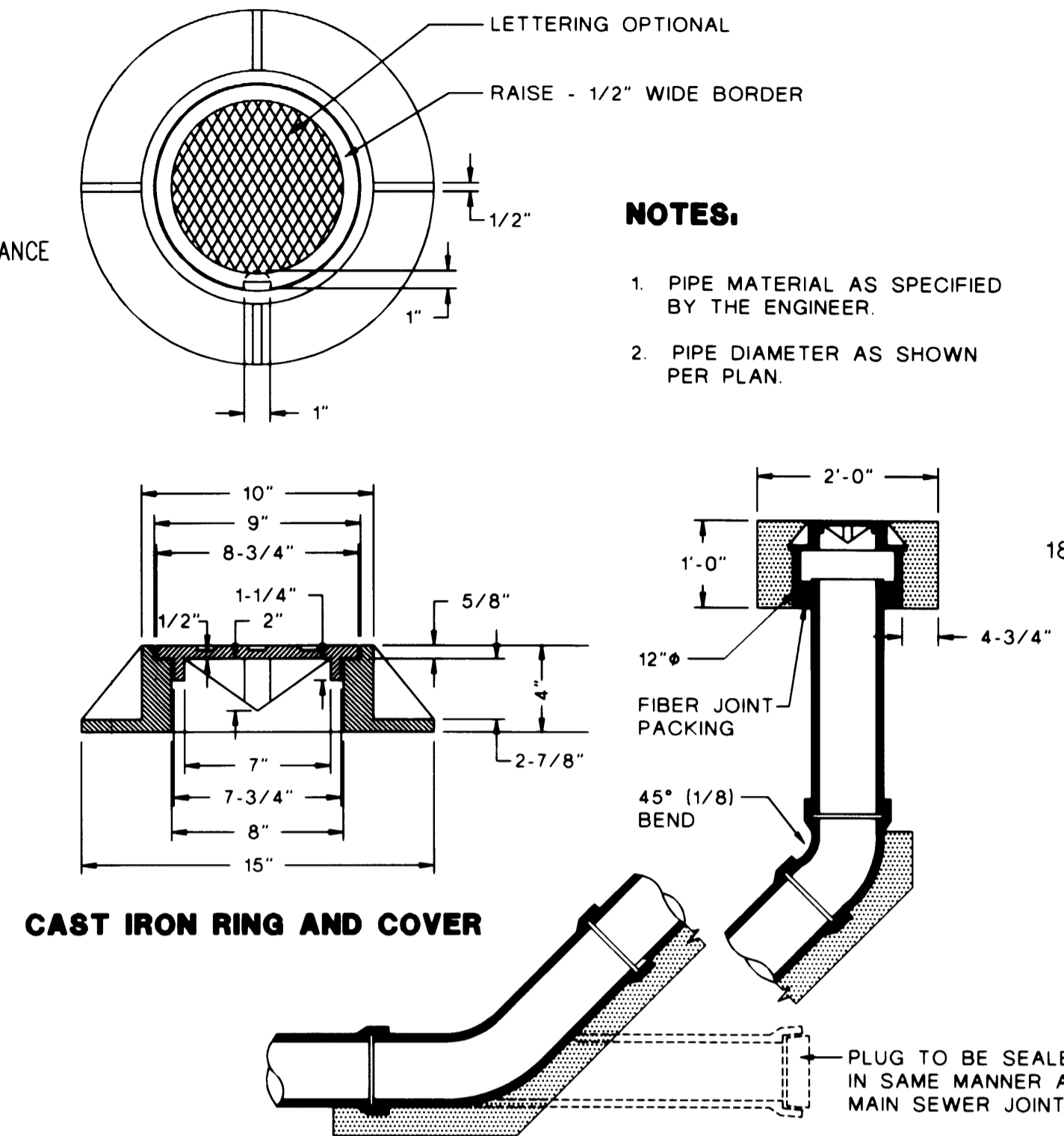
- ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER).
- TRASH RACKS SHALL BE INSTALLED AT ALL OPEN ENDS OF STORM DRAINAGE PIPE 12" DIA. AND GREATER.

**15 TRASH RACK DETAIL**  
NOT TO SCALE FROM CITY STD. NO. 209

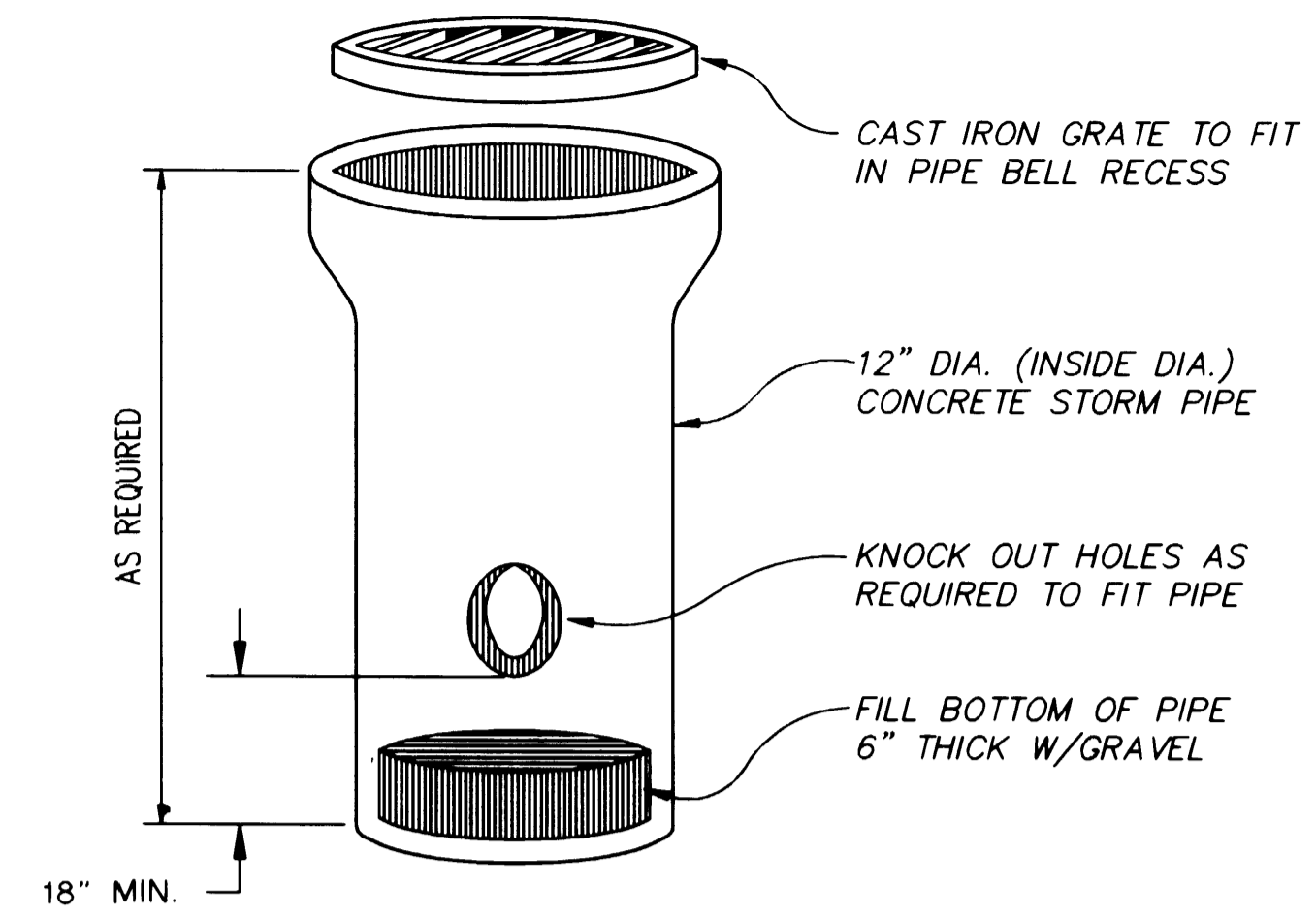


- THE DISTRIBUTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7.05 AND ASTM C 478.
- THE FACE OF NEAT LINE CUTS IN EXISTING ASPHALT PAVEMENT SHALL BE TACKED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
- PRECAST RISER SECTION OR PRECAST BASE WITH INTEGRAL RISER SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS WITH A MINIMUM WALL THICKNESS OF 2" THE SIZE OF THE KNOCKOUT SHALL BE EQUAL TO THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS. THE MAXIMUM HOLE SIZE IS 36" FOR A 48" MANHOLE, 42" FOR A 54" MANHOLE, 60" FOR A 72" MANHOLE AND 84" FOR A 96" MANHOLE.
- A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO A MANHOLE. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.

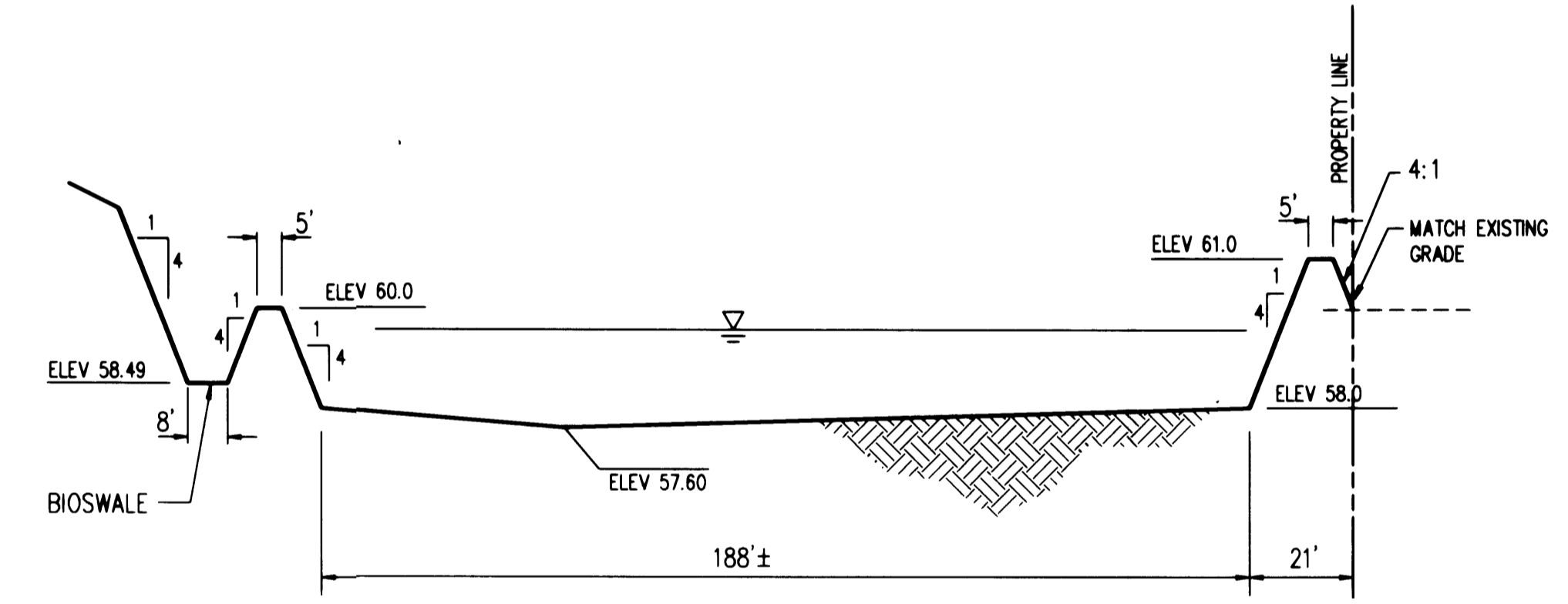
**16 STORM MANHOLE**  
NOT TO SCALE FROM CITY STD. NO. 201



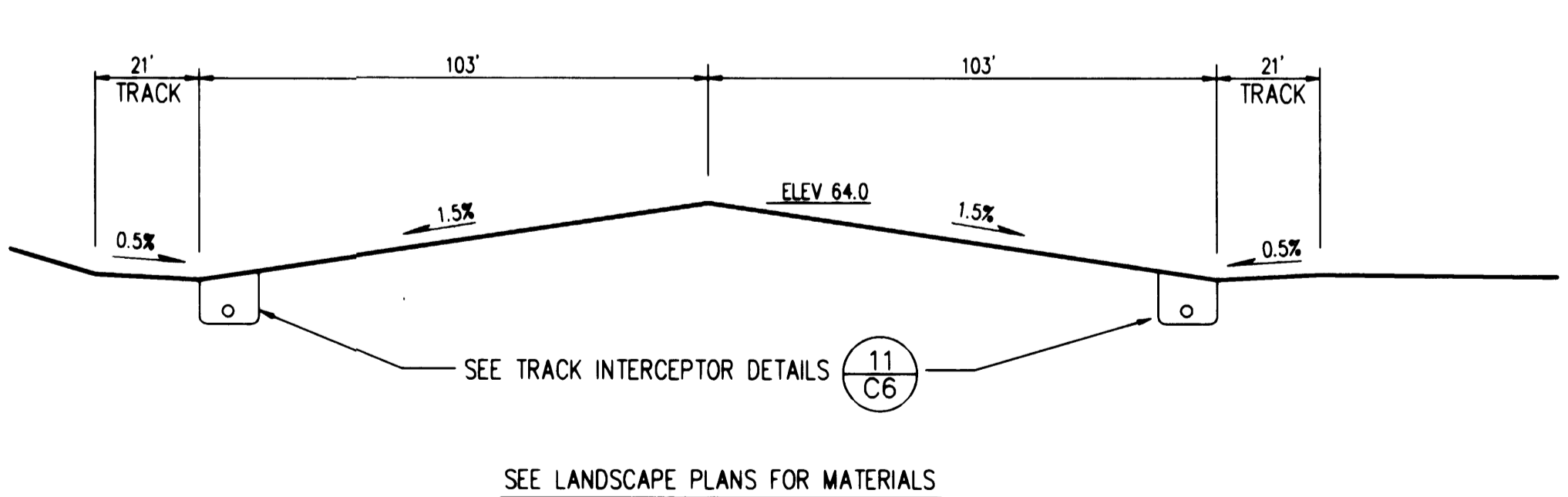
**17 STORM CLEAN-OUT DETAIL**  
NOT TO SCALE



**18 AREA DRAIN DETAIL**  
NOT TO SCALE



**19 POND X-SECTION**  
NOT TO SCALE



**20 TRACK X-SECTION GRADES**  
NOT TO SCALE

**APPROVED**  
BY: *[Signature]* PE.  
CITY OF PUYALLUP  
CITY ENGINEER  
DATE: 12-13-95

**BROWN CONNALLY ROWAN ARCHITECTS**  
JEFFREY E. BROWN, PRINCIPAL  
222 EAST 26th STREET  
SUITE 105  
TACOMA, WA 98421  
TEL: (206) 827-4387  
FAX: (206) 827-4395

Project No.	12-13-95
Date	DEC 13, 1995
Drawn By	VIV
Checked By	SS

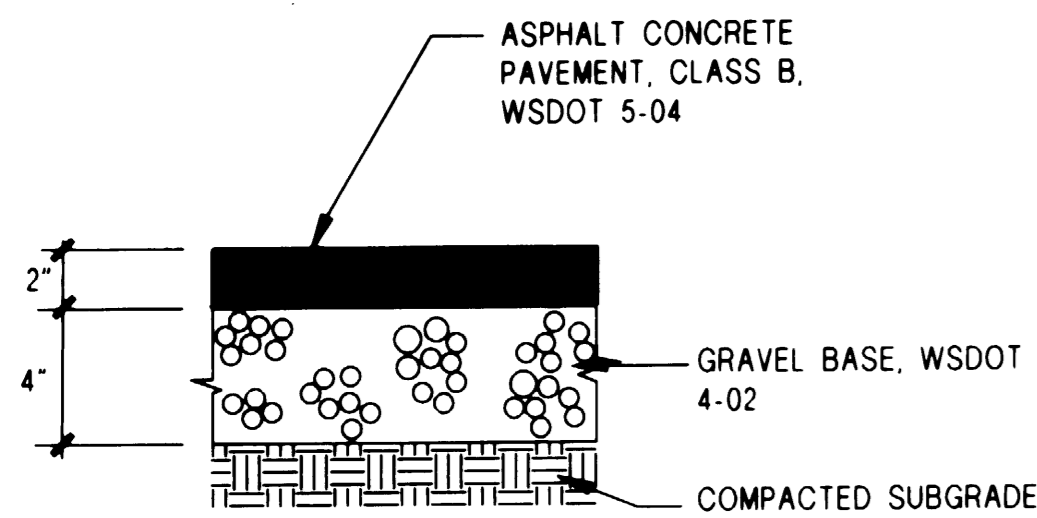
**CASCADE CHRISTIAN SCHOOLS**  
306 NORTH MERIDIAN  
PUYALLUP, WA 98571

**GENERAL NOTES & DETAILS**

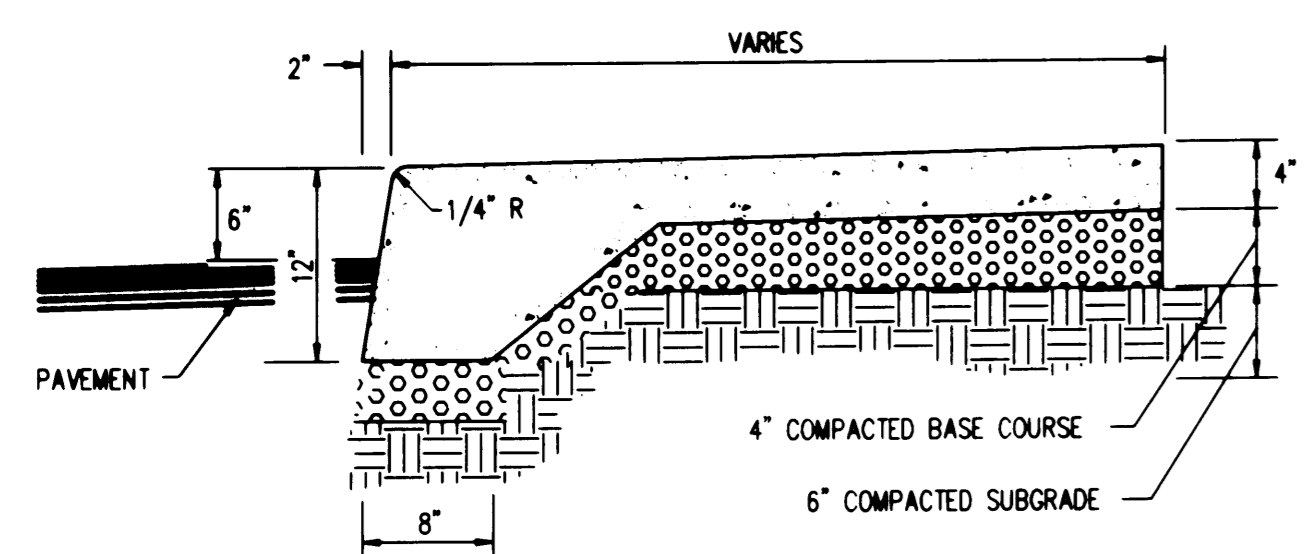
**CALL 48 HOURS BEFORE YOU DIG**  
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LAND PLANNERS • LANDSCAPE ARCHITECTS  
2216 NORTH 30th SUITE 300 • TACOMA, WA 98403  
(206) 383-2422 • FAX: (206) 383-2572

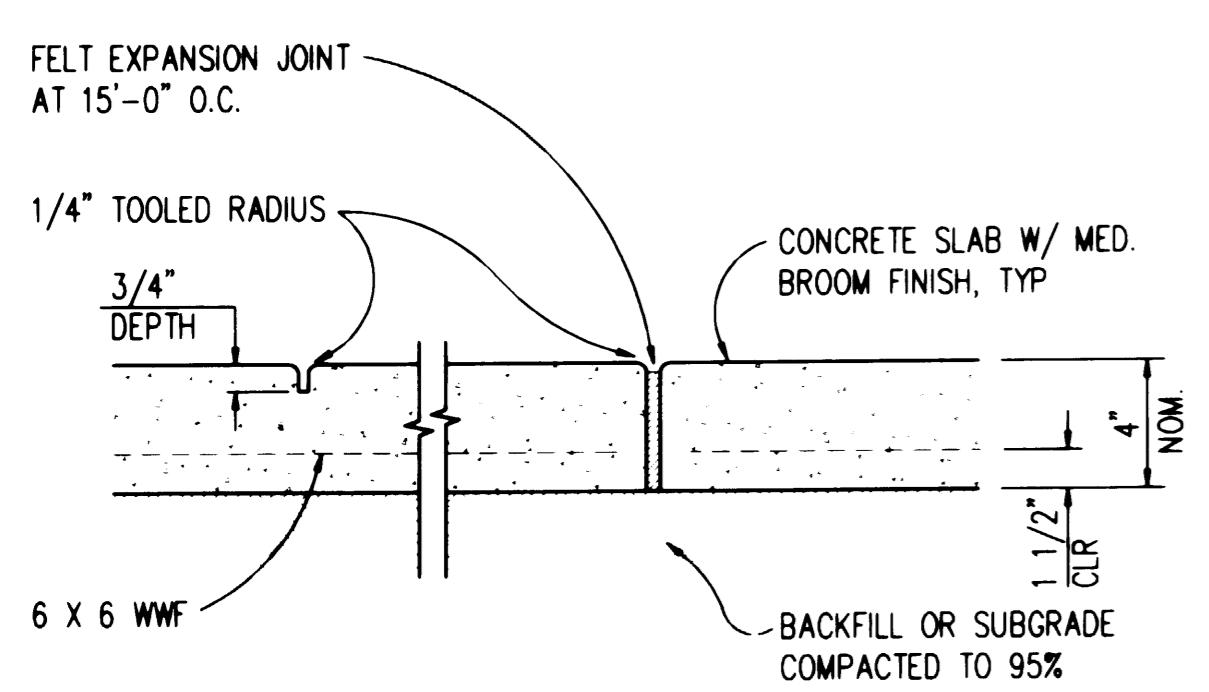
**C7**



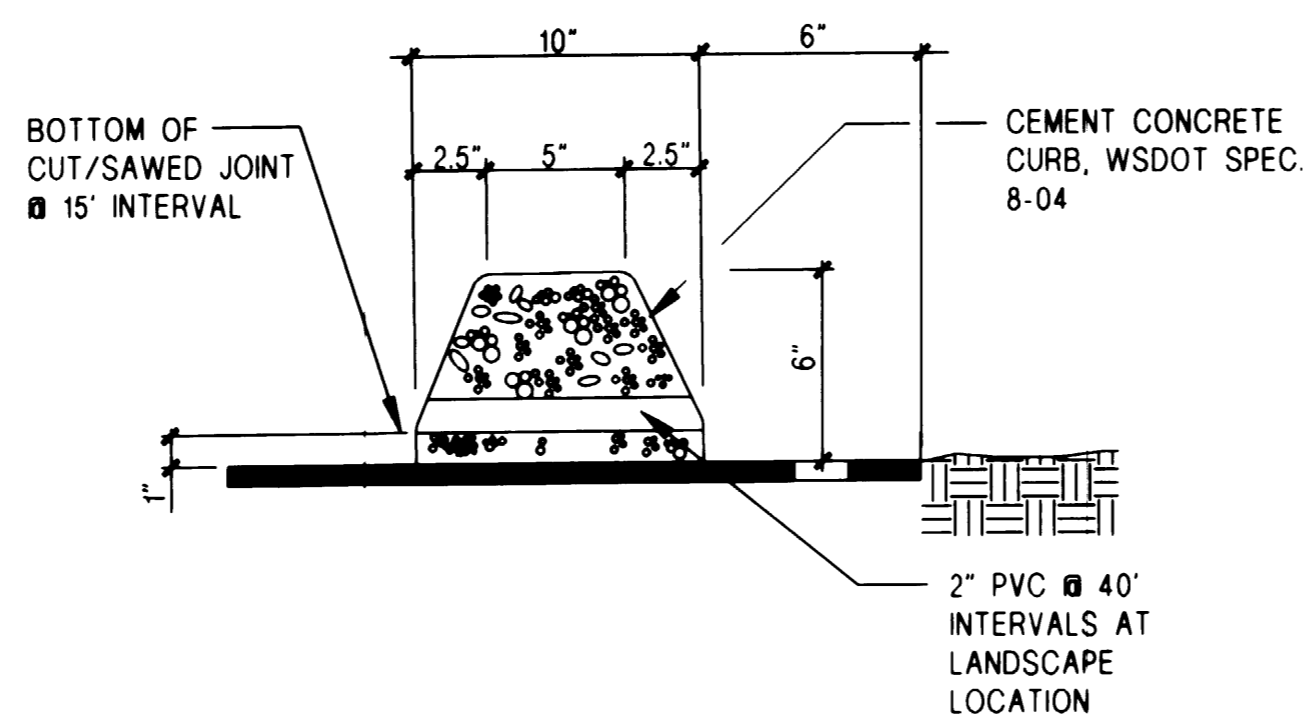
**21 ASPHALTIC CONCRETE PAVEMENT STRUCTURE**  
NOT TO SCALE



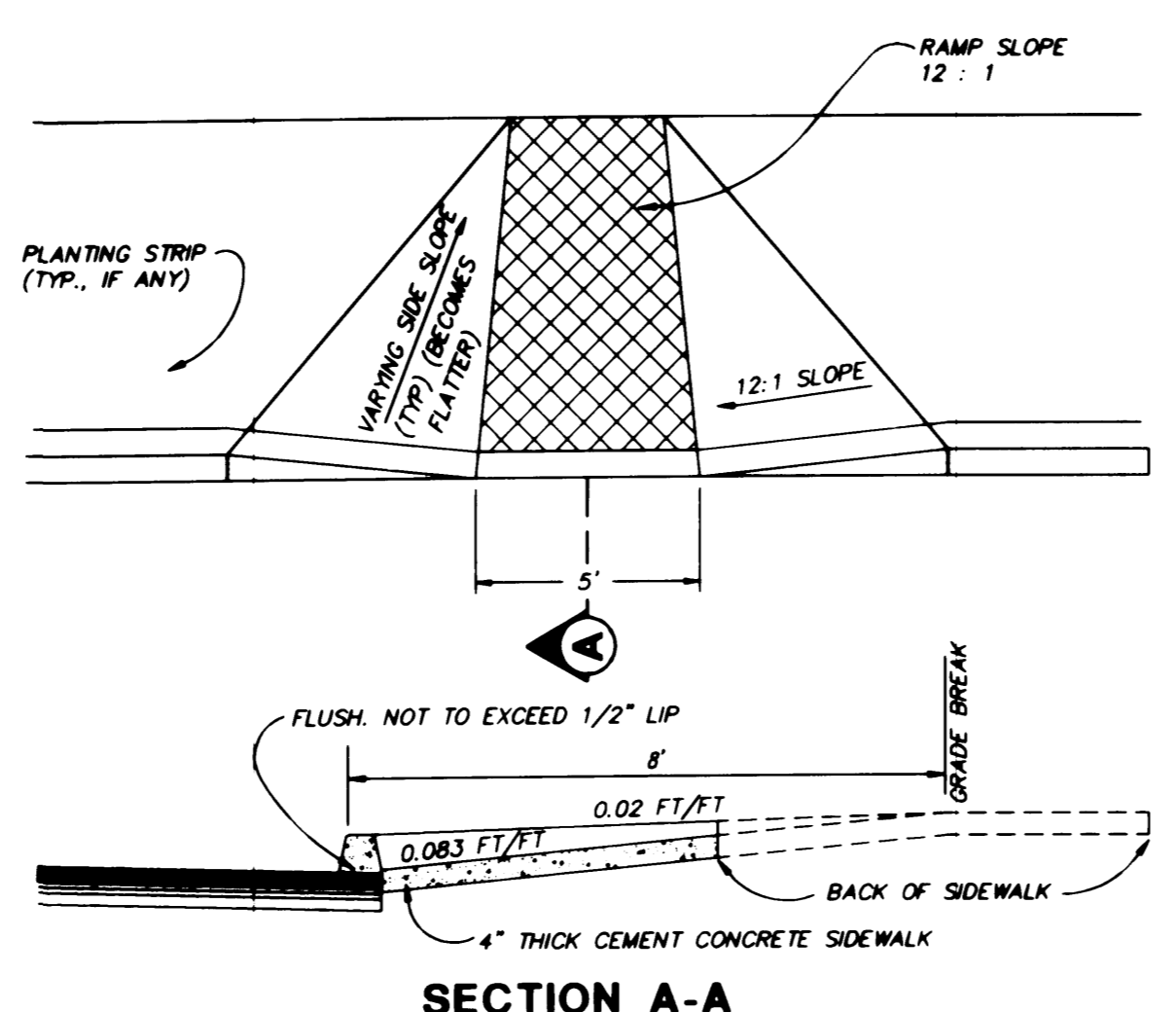
**22 INTEGRAL CURB AND WALK**  
NOT TO SCALE



**23 CONCRETE CONTROL/EXPANSION JOINT**  
NOT TO SCALE

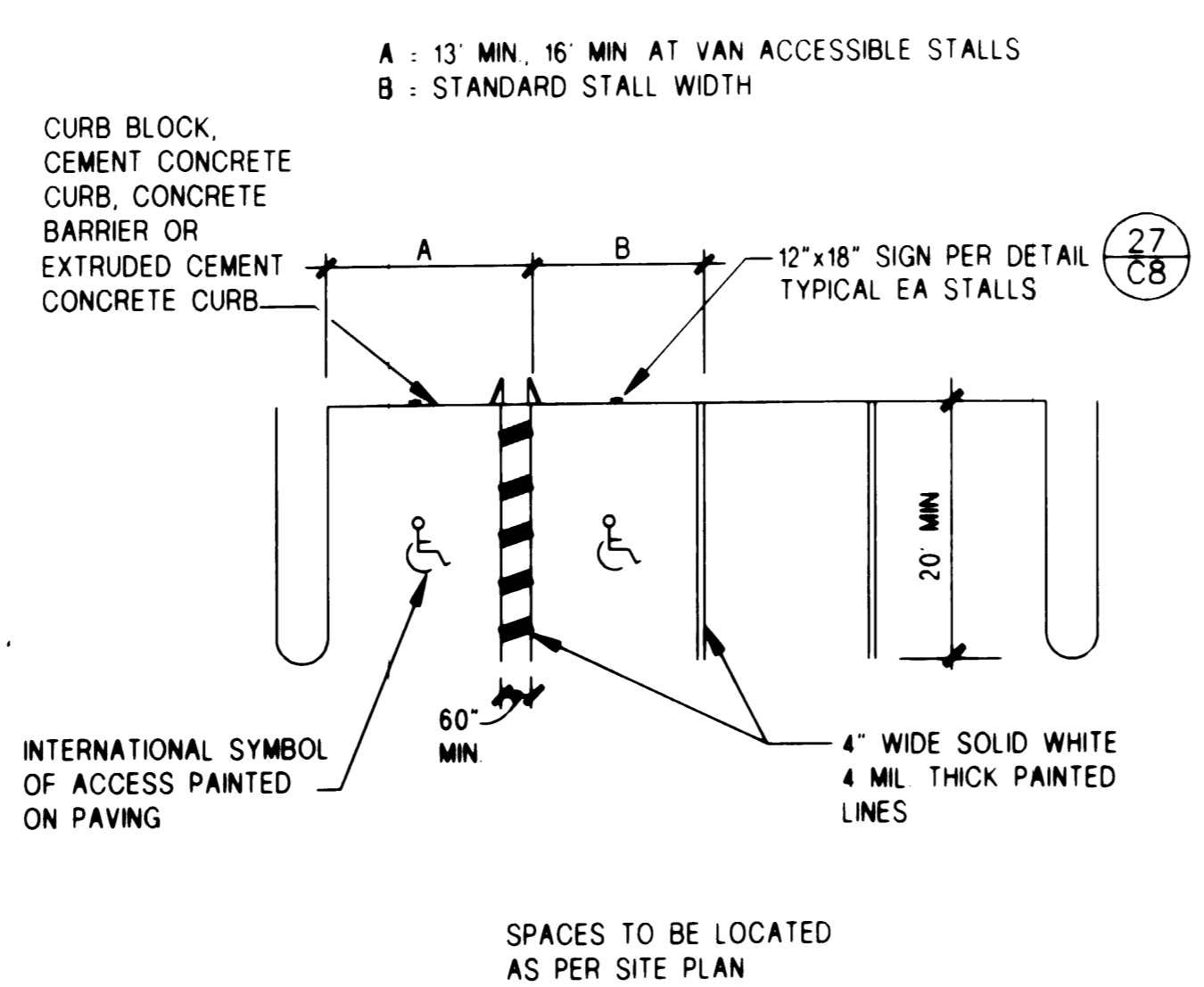


**24 EXTRUDED CEMENT CONCRETE CURB**  
NOT TO SCALE

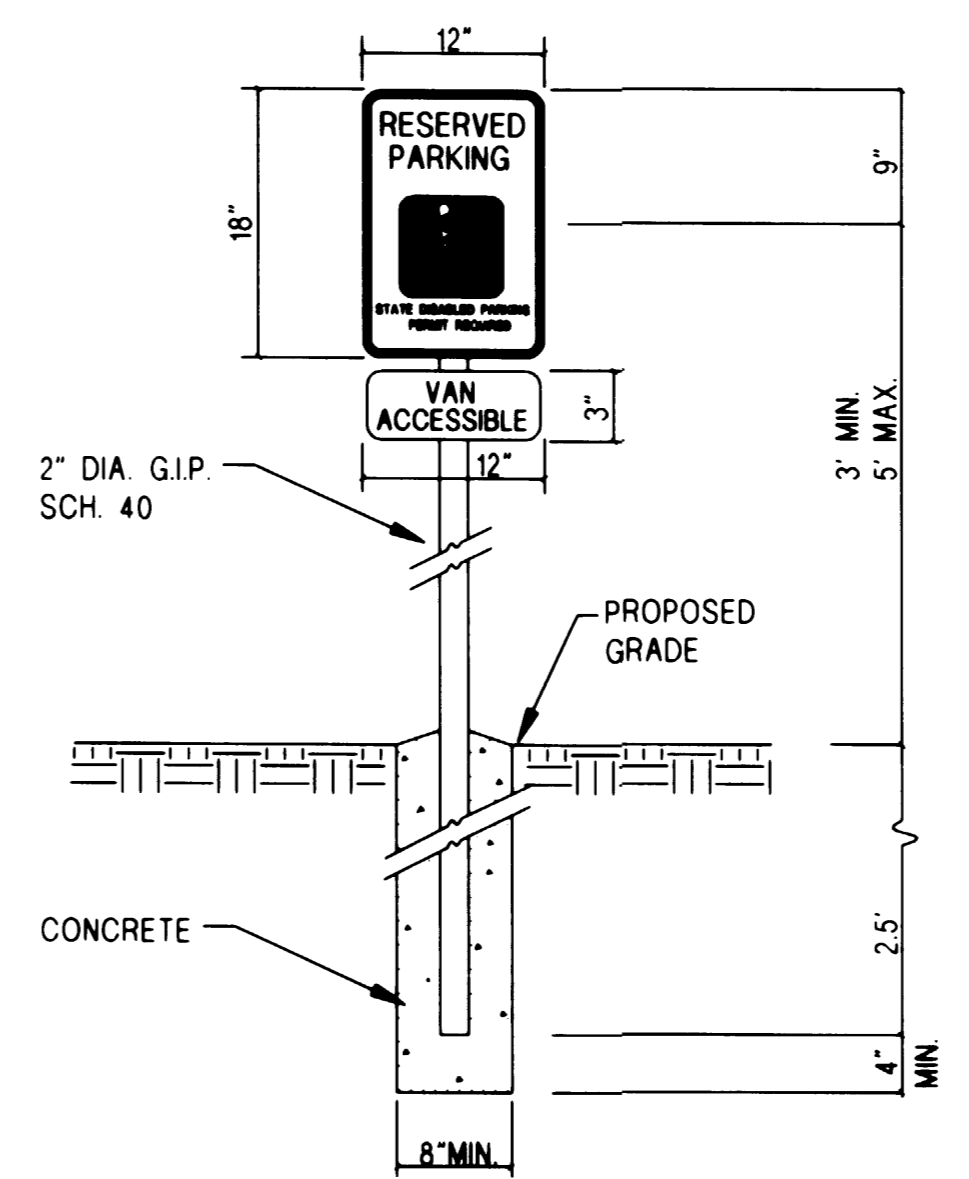


- NOTES:**
- RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCLUDING HYDRANTS, POLES & INLETS.
  - RAMP SHALL BE TEXTURED BY IMPRINT OF METAL GRID WITH 1/2" SPACING.
  - VISUAL WARNING STRIP SHALL BE PROVIDED 4" WIDE BETWEEN EXPANSION AND SCORED (CONTRACTION) JOINTS.
  - RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
  - WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET.

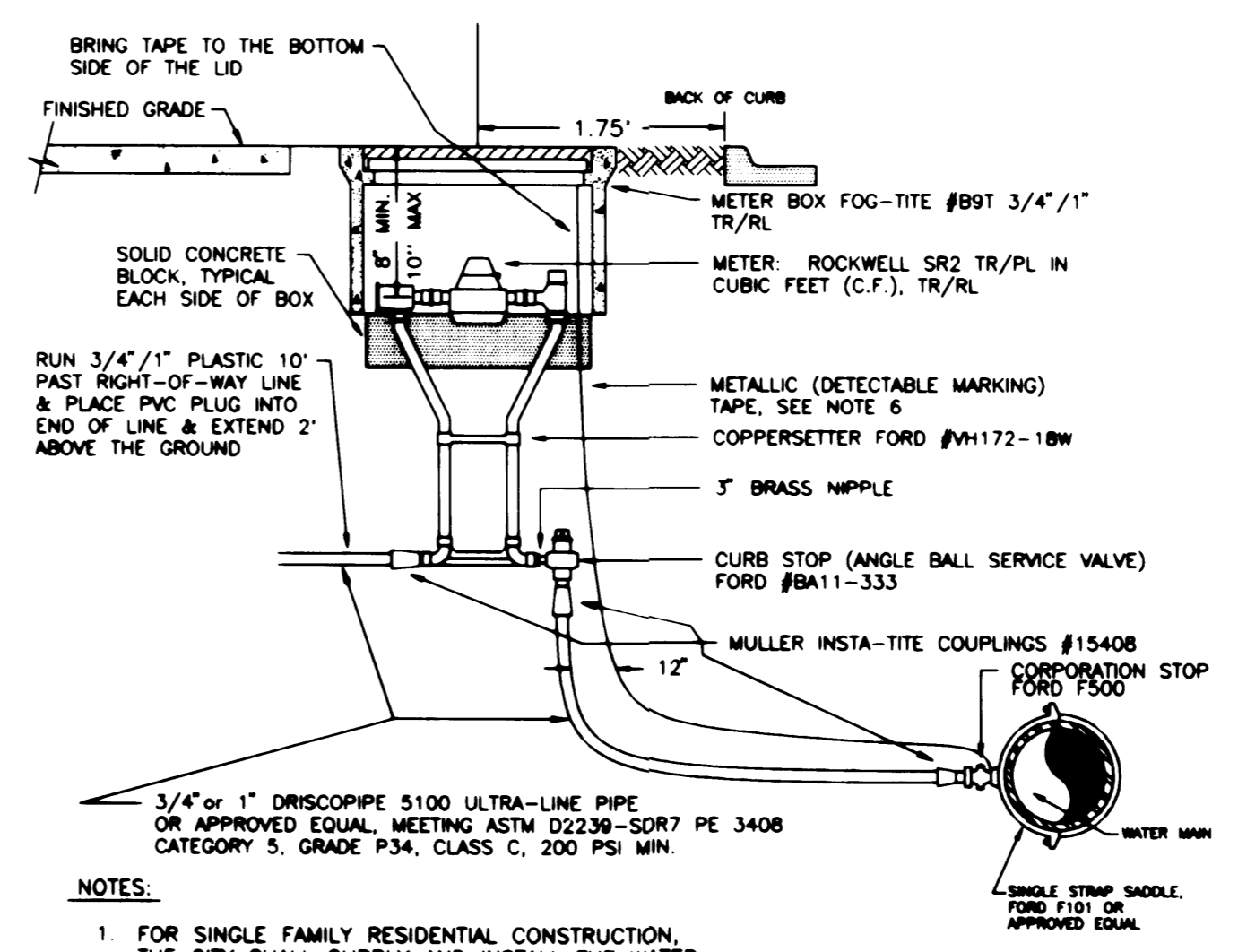
**25 HANDICAP RAMP**  
NOT TO SCALE



**26 TYPICAL PARKING AREA & STRIPPING**  
NOT TO SCALE



**27 DISABLED PARKING SPACE SIGNAGE**  
NOT TO SCALE



**28 1' WATER METER**  
NOT TO SCALE

**APPROVED**  
BY: *[Signature]*  
CITY OF PUYALLUP  
CITY ENGINEER  
DATE: 12-13-95  
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR THE ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

**BROWN CONNALLY ROWAN ARCHITECTS INC.**  
JEFFREY E. BROWN, PRINCIPAL  
225 EAST 28th STREET SUITE 108 TACOMA, WA 98421  
TEL (206)627-4367 FAX (206)627-4396

**GEORGE J. LIMBERG**  
CITY ENGINEER  
DEC 13 1995

Project No.	Project Name
Drawn By: VV	Checked By: SS
Date: DEC 13, 1995	Project Location: PUYALLUP, WA 98371

**CASCADE CHRISTIAN SCHOOLS**  
308 NORTH MERIDIAN

**GENERAL NOTES & DETAILS**

Sheet No. **C8**

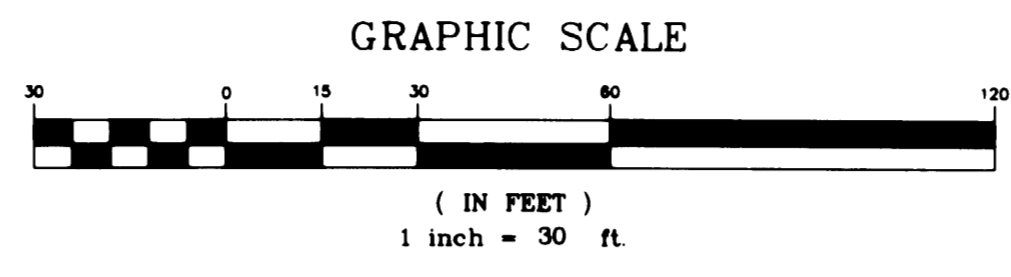
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PORTION OF THE S 1/2 OF SEC 26 AND N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 CITY ENGINEER  
 DATE: 12-13-95  
 NOTE:  
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 FROM APPROVAL DATE.  
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 CITY OF PUYALLUP.



NOTE:  
 AUTO CAD FILE WILL BE MADE  
 AVAILABLE FOR CONSTRUCTION  
 STAKING

**BROWN CONNALLY ROWAN ARCHITECTS**  
 JEFFREY E. BROWN, PRINCIPAL  
 222 EAST 28th STREET  
 SUITE 106  
 TACOMA, WA 98421  
 TEL (206) 627-4367  
 FAX (206) 627-4395

**GEORGE J. LINDELL**  
 CIVIL ENGINEER  
 17723 97th St  
 Puyallup, WA 98447  
 (206) 835-1111

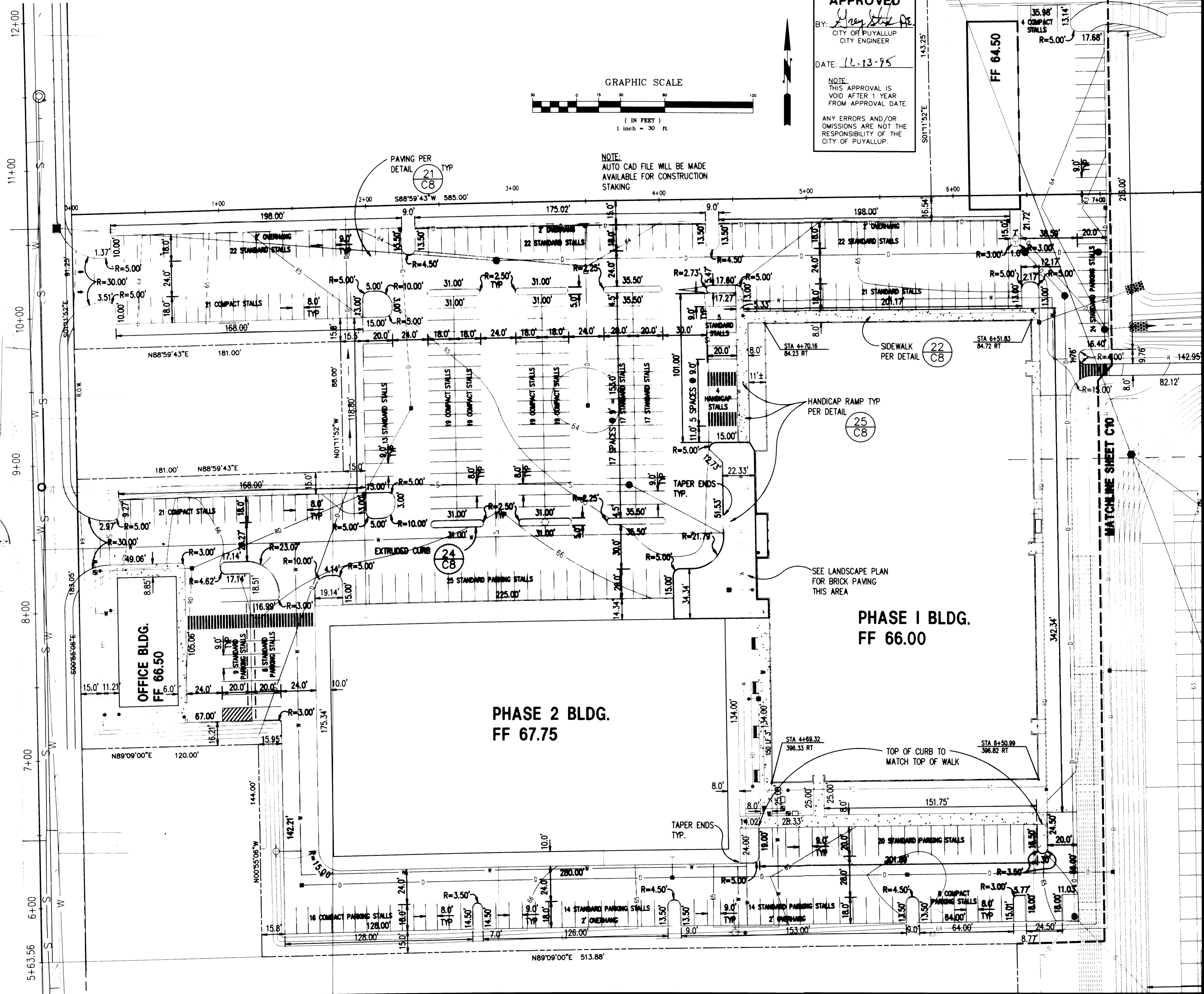
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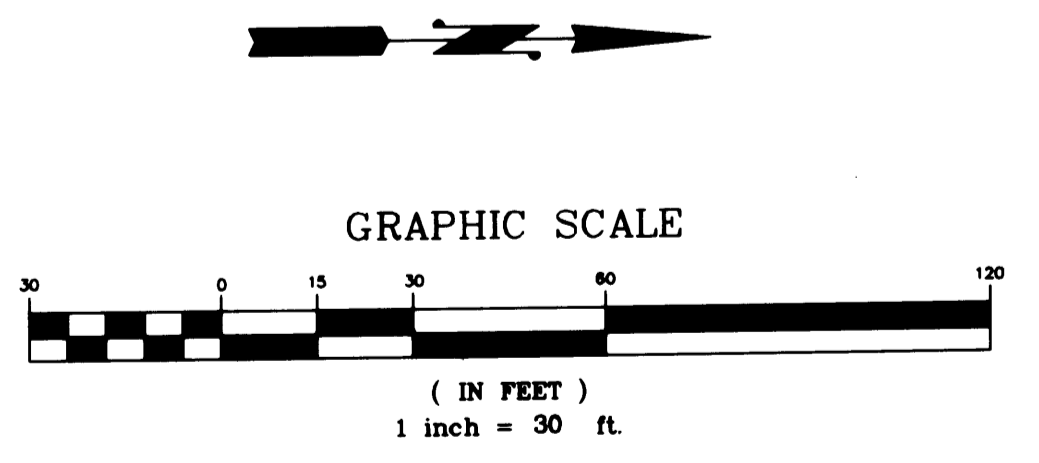
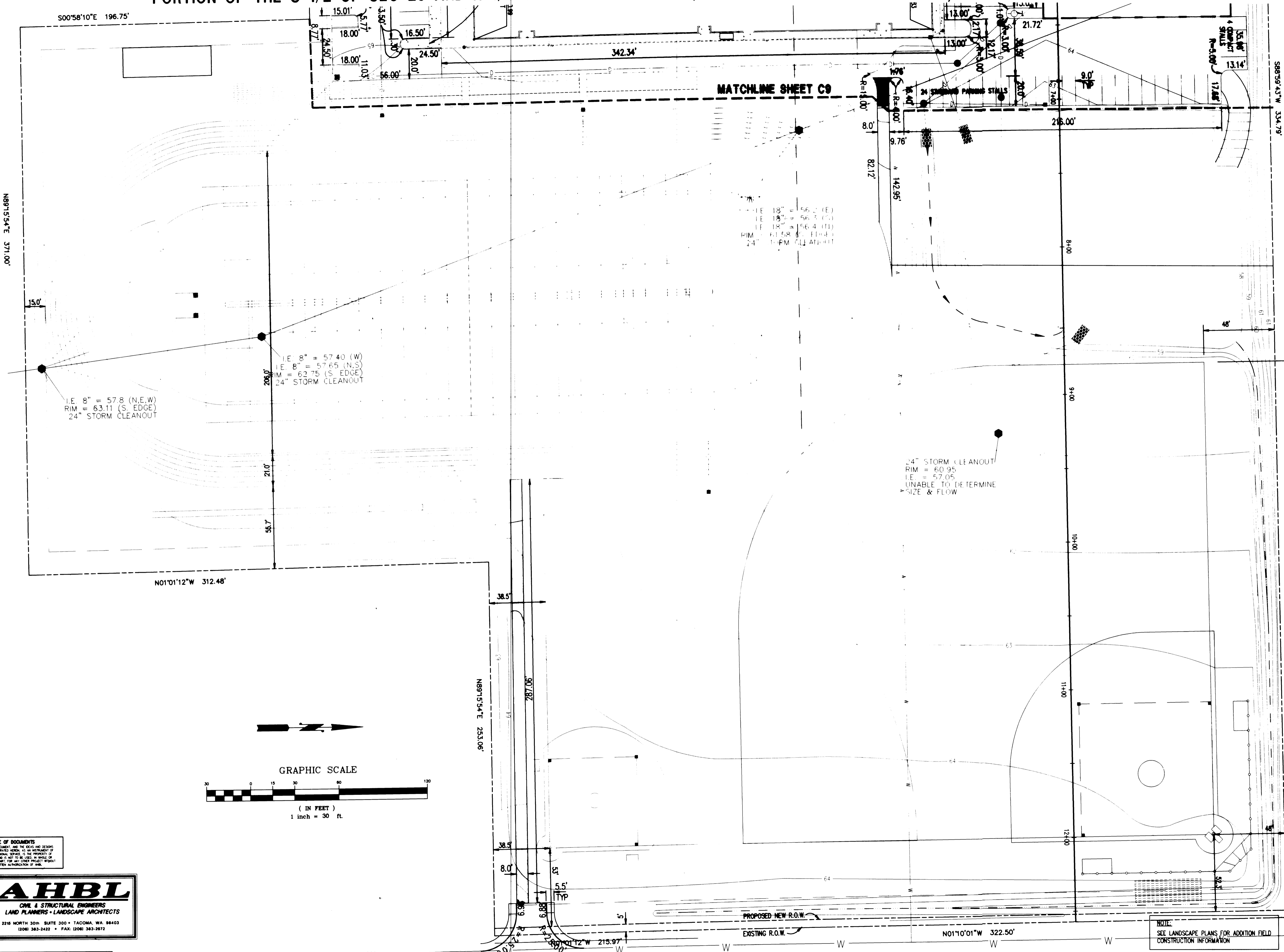
**C9**

PORTION OF THE S 1/2 OF SEC 26 AND N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

**APPROVED**  
 BY: *Wayne D. ...*  
 CITY ENGINEER  
 CITY OF PUYALLUP  
 DATE: 12-13-95  
 NOTE:  
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 SUITE 108  
 TACOMA, WA 98421  
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**GEORGE J. LINDA**  
 P.E.  
 7/23/97



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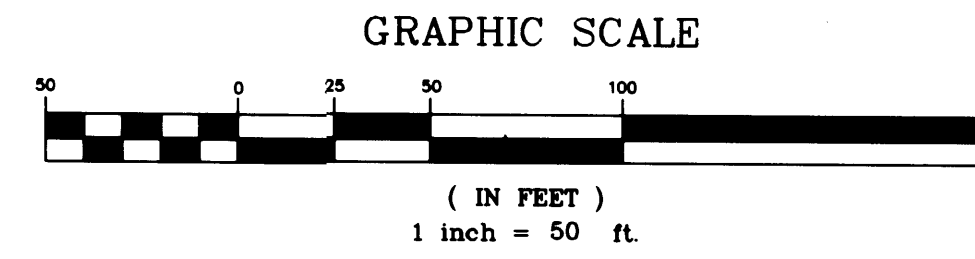
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Project No.	Project Name
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Checked By: SS	306 NORTH MERIDIAN PUYALLUP, WA 98371
Date: DEC 13, 1995	
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PORTION OF THE N 1/2 OF SEC 35 TWP. 20N., RGE. 4 E. W.M. PIERCE COUNTY, WA

NOTES:

- EXISTING UTILITY INFORMATION ON PIONEER WAY HAS BEEN TAKEN FROM CITY DESIGN PLANS AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. FIELD OBSERVATION INDICATES THAT STORM LINES AND STRUCTURES AT THE FINAL CONNECTION ON THE NORTH SIDE OF PIONEER WAY ARE NOT EXACTLY AS DESIGNED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF PIPE SIZES AND SLOPES FROM THE CONNECTION POINT TO DEER CREEK.
- OTHER EXISTING UTILITIES ARE PRESENT AND ARE LIKELY TO CONFLICT WITH THE PROPOSED STORM CROSSING ON PIONEER WAY. CONTRACTOR SHALL NOTIFY THE ENGINEER AND COORDINATE RELOCATIONS WITH THE OWNERS OF THESE UTILITIES AS NECESSARY.



APPROVED

BY: *Jeffrey E. Brown*  
CITY OF PUYALLUP  
CITY ENGINEER

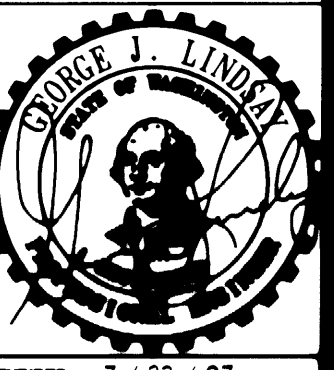
DATE: 12-13-95

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FROM APPROVAL DATE.

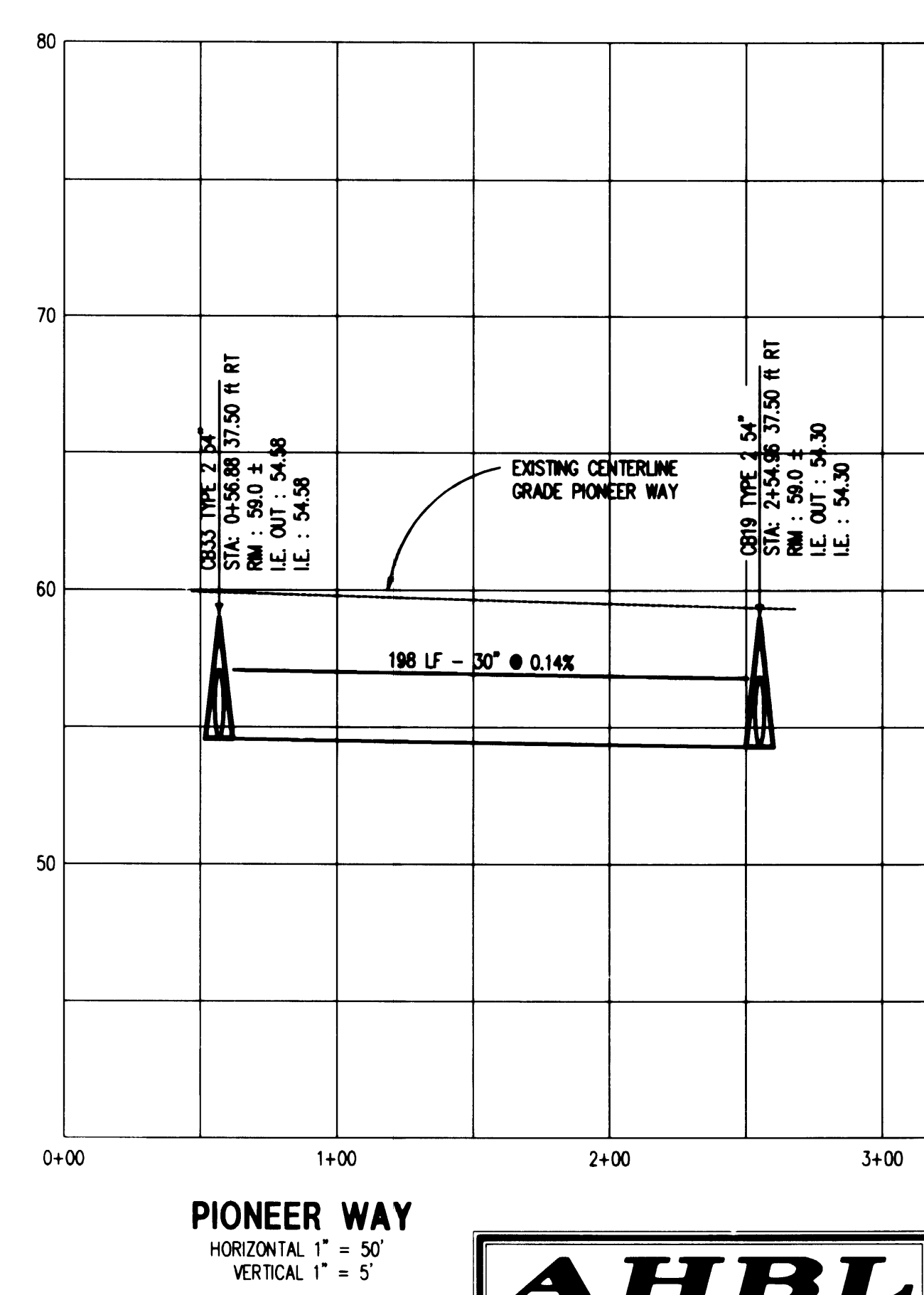
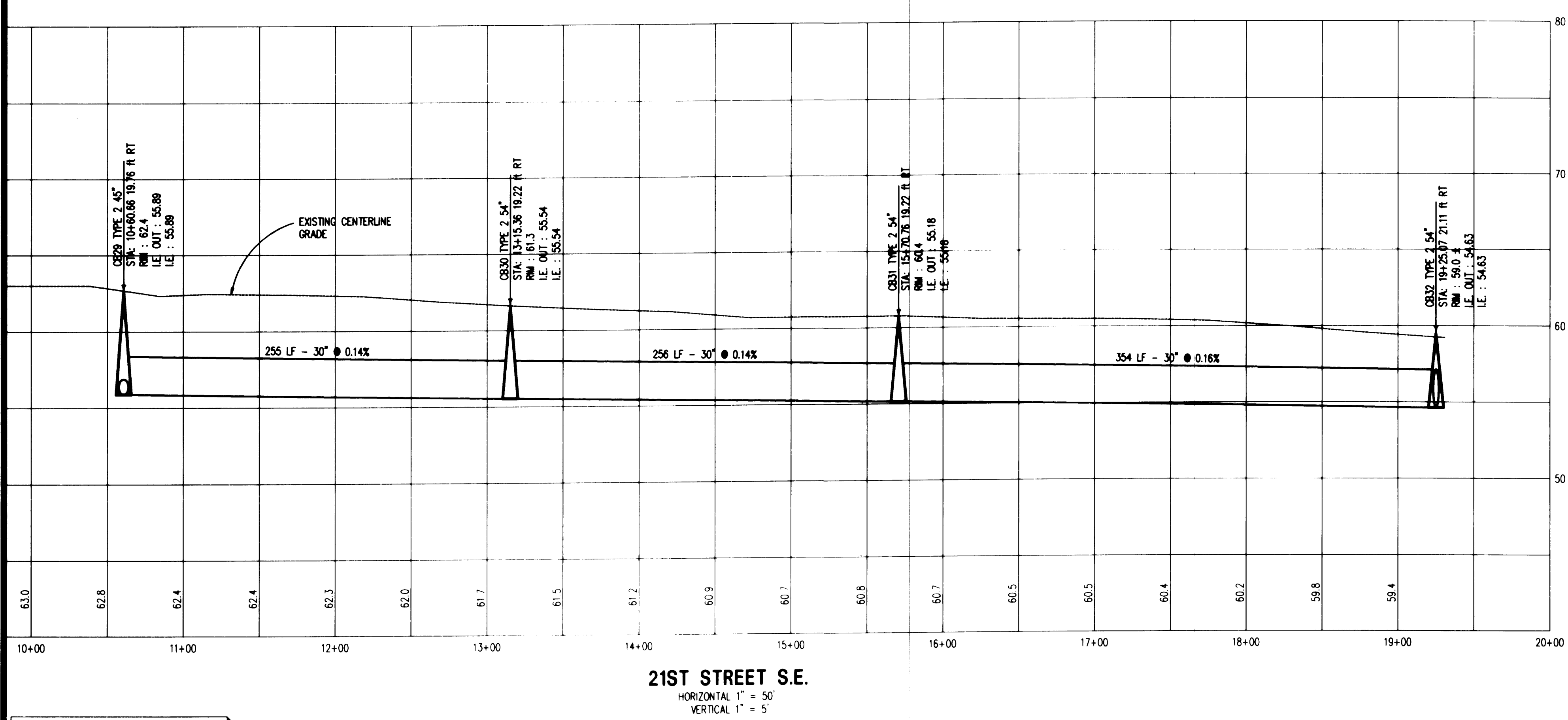
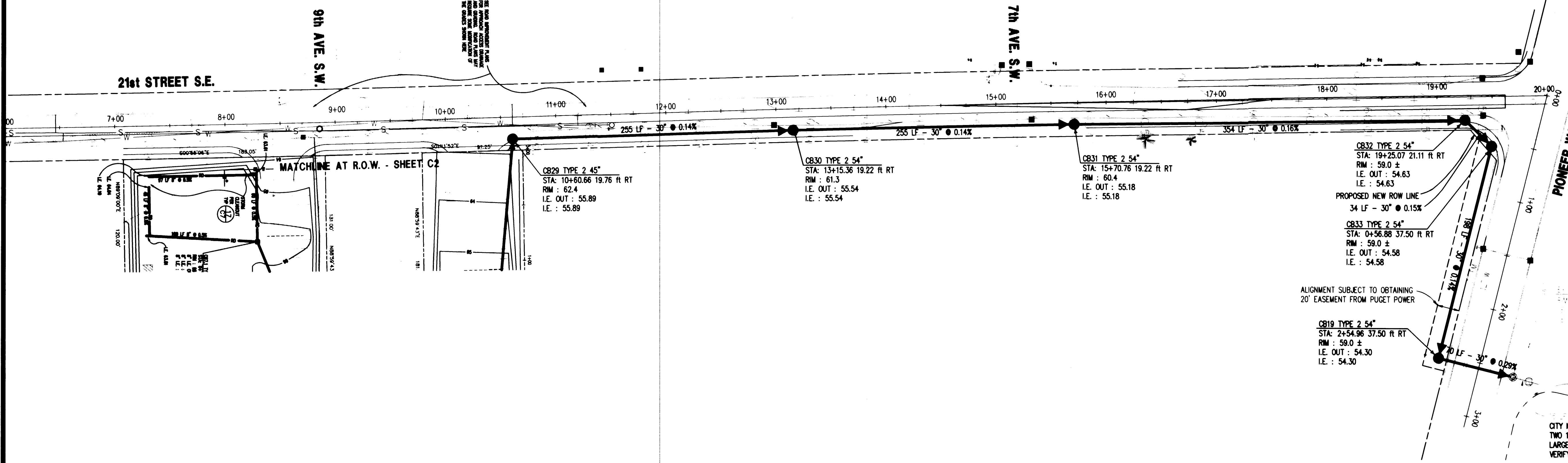
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222 EAST 20th STREET  
SUITE 104  
TACOMA, WA 98421  
TEL (206)627-4367  
FAX (206)627-4395



EXPIRES 7/23/97



Drawn By: VV  
Checked By: SS

Project No:  
Date: DEC 1 1995

Project: CASCADE CHRISTIAN SCHOOLS  
306 NORTH MERIDIAN PUYALLUP, WA 98371

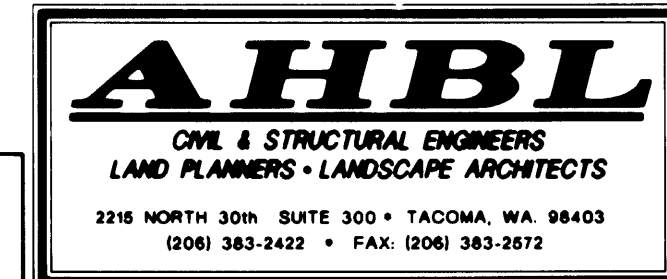
Drawing Title: OFFSITE STORM & IMPROVEMENTS

Sheet No:

C11

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2216 NORTH 30th SUITE 300 • TACOMA, WA 98403  
(206) 383-2422 • FAX: (206) 383-2672