



Approved Materials List

2026 Edition

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Notes:

- The use of alternative equipment and/or materials that are of equal quality and of the required characteristics for the purpose intended may be permitted in accordance with Section 18 of the *Standard Specifications for Design and Construction*.
- Phone numbers and websites are provided as a courtesy only.

Division 03 - Concrete

Reference: Section 03 30 00, Cast-in-Place Concrete
Section 03 34 13, Controlled Low-Strength Material (CLSM)
Section 03 40 00, Precast Concrete

READY-MIX DESIGNS

Description: Cast-in-place, ready-mix concrete with a compressive strength of 4000 PSI after a 28-day cure time.

Manufacturer	Phone Number	Mix Designation	Mix Design #
<i>Central Concrete Supply</i>	(408) 404-1030	Controlled Low Strength Material	F35138AA
		Cast-in-place Concrete	1EF115Q1
			163115C1
<i>Cemex</i>	(650) 333-5357	Controlled Low Strength Material	4212893
		Cast-in-place Concrete	4212798
<i>Antioch Building Materials</i>	(925) 432-3828	Controlled Low Strength Material	3560220A8
		Cast-in-place Concrete	605111104

CONCRETE CURING MATERIALS

Description: Curing compounds shall be white pigmented and resin based.

Note: Sodium silicate compounds shall not be used.

Manufacturer	Compound
<i>Master Builders</i>	MB-429
<i>Burke Company</i>	Spartan Cote Cure-Seal Hardener
<i>Euclid Chemical Company</i>	Super Rez Seal

PRECAST PRODUCTS

Description: Precast Products such as Manhole Bases, Barrels, Cones, Grade Rings, Paving Rings, Adjustment Rings, Gaskets, Top Slabs, Grease Interceptors, Sampling Boxes and Sand-Oil Interceptors can be obtained from the following approved manufacturers.

Manufacturer	Phone Number
<i>Central Precast (US Concrete Precast Group)</i>	(925) 960-8740
<i>Jensen Precast</i>	(707) 429-5500
<i>Oldcastle Infrastructure (Pleasanton)</i>	(925) 846-8183

REINFORCED CONCRETE UTILITY BOXES

Description: Utility boxes for traffic and non-traffic areas.

Location	Item Description	Product
Traffic Area	10-3/8" I.D. x 12" Valve Box	Christy® or Jensen® G5 Traffic Valve
Non-Traffic Area	8" I.D. x 12" Valve Box	Christy® or Jensen® F8 Box
	8-1/2" I.D. x 11-3/4" Drain Box	Christy® V1 Drain Box
	Cast Iron solid lid marked "SEWER"	Christy® G-08 Lid



Christy® G5 Box



Christy® F8 Box



Christy® G-08 Lid

Division 05 - Metals

Reference: Section 05 50 00, Miscellaneous Metal Work

CAST METAL PRODUCTS

Description: Cast Metal Products such as Manhole Frames, Covers, Rodding Inlets and Adjustment Rings can be obtained from, but are not limited to, the following approved manufacturer:

Manufacturer	Phone	Email
D&L Foundry and Supply*	(707) 557-4525	rosewhitney@dlfoundry.com

*The new cover design, required in the 2025 edition of the Standard Specs, is available to independent cast iron supplies to order directly from D&L; reference cover # A-1024-344.

ANCHORS

Description: 3/16" stainless steel wedge anchors

Anchor Type	Manufacturer	Product
<i>Epoxy Adhesive</i>	Sika	FI System with Sikadur® Injection Gel Epoxy
	Hilti	HIT HY150 Adhesive Anchors
	BASF	Concresive® 1420 Gel Epoxy Adhesive
	BASF	Concresive® Paste LPL
<i>Expanding type*</i>	ITW	Red Head®, Trubolt Wedge Anchor
	Hilti	Kwik-Bolt 3 Expansion Anchor
<i>Glass Capsule Polyester Resin Adhesive Anchors</i>	Hilti	HVU Adhesive Capsule

*when available



Trubolt Wedge Anchor



HVU Adhesive Capsule



HIT HY150 Adhesive Anchor

Division 31 - Earthwork

Reference: Section 31 23 16, Excavation, Bedding and Backfill
Section 31 05 19, Geosynthetics for Earthwork

BEDDING AND BACKFILL MATERIALS

Note: Must submit compaction curve for ISD approval.

Type	Material Description
<i>CLSM</i>	Controlled Low Strength Material
<i>Coarse</i>	- Drain or Foundation Rock - Crushed stone or gravel (not mined alluvial material) - Minimum of 95% crushed particles - Durability Index of 40
<i>Type 1</i>	- Class 2 Aggregate Base - Newly quarried or recycled material (not mined alluvial material) ¾" maximum grading
<i>Type 3</i>	- Native material from trench excavation - Free of vegetable matter, debris and refuse, concrete, stones or clods larger than 4"
<i>Type 3 Select</i>	- Native Material from trench excavation - Particles must not exceed ¾" in diameter - Free of vegetable matter, debris and refuse, concrete, stones or clods larger than 4"

GEOTEXTILES

Description	Manufacturer	Product
<i>Geotextile for Wrapping Foundation Rock</i>	Mirafi	600X
	US Fabrics	US 315
	Webtec	HD
	Carthdage Mills	FX-66
	Amoco	2006
	Propex	300 ST
	SKAP	W315
	Thrace/Linq	GTF 300
<i>Geotextile for Paving</i>	Mirafi	Mirapave 400
	US Fabrics	US 90P
	Webtec	OL
	Carthdage Mills	FX-38 OL
	Amoco	4599 Petromat
	Propex	381

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	SKAP	GC 130
	Thrace/Linq	130 EX

Division 33 - Utilities

Reference: Part II, Section 4
 Part II, Section 5
 Part III, Section 8
 Part IV, Section 13
 Section 33 05 16, Cast Iron Pipe (CIP)
 Section 33 05 19, Ductile Iron Pipe (DIP)
 Section 33 05 31.11, Polyvinyl Chloride (PVC) Gravity Pipe
 Section 33 05 31.33, Acrylonitrile Butadiene Styrene (ABS) Pipe
 Section 33 05 33.13, High Density Polyethylene (HDPE) Gravity Pipe
 Section 33 05 41, Vitrified Clay Pipe (VCP)
 Section 33 31 00, Sanitary Sewerage Piping
 Section 33 31 16, Sanitary Sewer Gravity Service Laterals
 Section 33 31 26 - Multiple-User Low Pressure Sewer Systems (MULPSS)
 Section 33 32 26 - Individual Lot Pumping Systems

LATERAL SEWERS: 4" AND 6"

Description: Pipe material for lateral sewers 4" (single-family residential) and 6" (commercial and multi-family residential) in diameter.

Description	Class/Lining/Coding	Joints
ABS	Solid Wall Schedule 40	solvent welded joints
CIP	Class SV ¹	- bell & spigot joints - no-hub (repairs only)
DIP	Class 52- Protecto 401 epoxy lined	bell & spigot joints
HDPE ³	SDR-17 Gray (Ductile Iron Pipe O.D.) ²	- butt thermal fused joints, de-beaded - pipe bursting or directional drilling only or at inspector's discretion
PVC	Solid Wall SDR-26	- solvent welded joints - bell & spigot joints
PVC	Solid Wall C900 DR-14, DR-18, DR-25	bell & spigot joints

Notes:

1. CIP is approved for spot repairs to match existing material. CIP will not be approved for installation of new side sewers or replacement of existing side sewers.
2. HDPE SDR-17 shall be purchased in longest length practicable in order to achieve the minimum amount of pipe joints during construction. A maximum of 10 joints per 100-foot length of laid pipe shall be achieved.
3. All HDPE joints must be de-beaded inside.

LATERALS: PRESSURIZED

Description: Pipe material for pressurized sewer laterals, diameter shall match the sump's outlet

Description	Joints
HDPE SDR-11 Gray*	butt thermal fused joints (de-beaded inside and out)
PVC (Solid Wall SDR-26)	- solvent welded joints - bell & spigot joints
PVC (Solid Wall C900 DR-14, DR-18, DR-25)	bell & spigot joints

*for shallow systems only

OVERFLOW PROTECTION DEVICES (OPD)

Description: Overflow protection devices prevent sewage from entering homes and businesses and reroute the spill outside the building.

Type	Manufacturer	Product Name
Sewer Popper™ Relief Cap (6" Cleanouts Only)	Stephens Corp	Sewer Popper™ Model S62-304
	Unlimited Home Solutions LLC (www.unlimitedhomesolutions.com)	Sewer Relief Cap
Relief Cap/Popper (avail for 6" cleanouts)	K&S Enterprises (www.kandsreps.com)	Product #62306



Sewer Relief Cap (6" Clean Outs Only)



K&S Sewer Relief Cap/Popper



Sewer Popper™ OPD

MAIN SEWERS: LESS THAN 18"

Description: Pipe material for sewers less than 18" in diameter.

Note: Material shall be purchased in longest length practicable in order to achieve the minimum number of pipe joints.

Description	Joints
<i>PVC Solid Wall SDR-26</i>	bell & spigot joints
<i>DIP Protecto 401 Ceramic Epoxy Lining or equal</i>	bell & spigot joints
<i>PVC Solid Wall C900 or C905</i>	bell & spigot joints
<i>HDPE SDR-17 Gray (Ductile Iron Pipe O.D.)</i>	butt thermal fused joints, de-beaded

JOINT RESTRAINT SYSTEMS

Material	Manufacturer	Joint Restraint System
<i>DIP</i>	American Ductile Iron Pipe	"Lok-Fast" Restrained Joint
	U.S. Pipe	"TR FLEX" Restrained Joint
		"Field-Lok 350 Gaskets"
	Megalug	<i>SUBMIT TO ISD FOR APPROVAL</i>
	Romac	<i>SUBMIT TO ISD FOR APPROVAL</i>
<i>PVC</i>	BullDog Restraint System	BullDog PVC Pressure Pipe Integrated Joint Restraint System
	Certain Teed	Certa-Lok restrained joint system
	Megalug	<i>SUBMIT TO ISD FOR APPROVAL</i>
	Romac	<i>SUBMIT TO ISD FOR APPROVAL</i>

PIPE FITTINGS FOR SEWERS LESS THAN 18"

Description: Pipe fittings for pipelines that are less than 18" in diameter.

Note: Saddle wyes must have four saddle bands.

Pipe Material	Fitting
DIP	Wye, Tee, 11 ¼ ° Fitting, Mechanical Fittings
PVC Solid	Wye, Tee, Closure Coupling
	Jones Stephens Saddle Wye*
	Oatey PVC Saddle Wye*
VCP	Wye, Tee

**Use of saddle wyes must be approved by Ironhouse Sanitary District.*

Manufacturer	Flexible Fitting	Maximum Allowable Fitting Deflection
Plastic Trends	SDR-26 Gasketed Sewer Fitting	4°
CertainTeed	Cast Iron O.D.	5°
	Iron Pipe Size O.D.	5°



Wye, Tee Fitting



SDR-26 Heavy Wall Gasketed
Sewer Fitting

CAST IRON FITTINGS

Description: Cast iron fittings.

Note: Other fittings may be accepted under special use approval. Contact the District Inspector for such circumstances. All fittings to be 4" or larger, or 6" for repairs of existing laterals only.



Combination Wye and 1/8 Bend



1/8 Bend



Long Sweep Quarter Bend



P-trap



Reducer



Reducing Combination



San Tee



1/16 Bend



Two-Way Combination (Clean-Out Only)



Wye



Twin Cleanout

COUPLINGS

Description: Banded Rubber Couplings for repairs, alterations and house sewers with connections of dissimilar materials. **Banded rubber couplings must have 4 clamps and metal shear bands. No dual-band fasteners are permitted.**

Manufacturer: Manufacturers included but are not limited to:

- Fernco®
- Mission®
- Husky®
- GripperGasket®

Note: Check with Inspector prior to purchase of material to insure proper coupling is selected for the different pipe types encountered.



Husky®
4 Clamp Coupling
(80 in-lb)



Fernco®
Stainless Steel Shear Rings
(60 in-lb)



Fernco®
Strong Back RC Couplings
(60 in-lb)



Fernco®
5000 Series RC Couplings
(60 in-lb)



Fernco®
No-Hub Coupling Silver
Yellow & Green (80 in-lb)



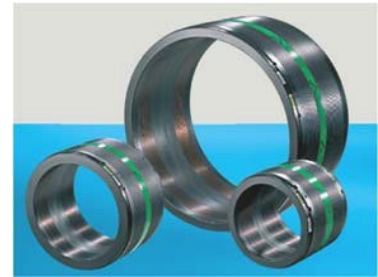
Mission®
Adjustable Repair Coupling



Anaco
No Hub (60 in-lb)



Fernco
The Hulk Coupling



Friatec®
Frialen Electrofusion
Coupling



GripperGasket®
MAXADAPTOR Coupling

TAPS

Description: Tap materials for the corresponding type of main line sewer.

Note: PVC taps may be done by A, C-34, or C-42 contractors registered and approved with Ironhouse Sanitary District.

Pipe Material	Mainline Tap
ACP	Fowler Saddle
CIP, DIP	- Fowler Saddle - Sealtite Type "S" Saddle with 4-band coupling
HDPE	Thermal-Fused Saddle
Insituform Liner	PVC Saddle with Rubber Gasket and 2 stainless steel straps
PVC	- Sealtite Type "S" Saddle with 4-band coupling - PVC Saddle with Rubber Gasket and 2 stainless steel straps - PVC Saddle with solvent weld and 2 stainless steel straps



ABS Saddle



Fowler Saddle



HDPE Saddle

RESIDENTIAL PUMP SYSTEMS

Description: Individual Lot Pump Systems. Must be an engineered system.

Vendor	System
<i>E-One</i>	D-Series, W-Series, I-Series and G-Series
<i>Liberty</i>	2448- Series, Pro370 Series, Pro380 Series
<i>Aqua Pro Pump Systems</i>	E-Series, EDP Series, ESP-Series, SG-Series, DG-Series
<i>Little Giant</i>	9SN / 10SN

Systems commonly approved for Residential applications:

Single Family Residential (SFR) and Attached structures

Minimum sump/tank size requirements:

- Diameter: 24"
- Height: 60"

SUBMERSIBLE, CENTRIFUGAL, NON-CLOG PUMPS				SUBMERSIBLE, CENTRIFUGAL, PD, GRINDER PUMPS			
Pump	Outlet	Sump	Size (d x h)	Pump	Outlet	Sump	Size (d x h)
AquaPro AS 100/200	2"/3"	TSD Lift Station	36" x 72"	E/One ¹ DH071 ²	1 – ¼"	E/One	24" x 72"
Barnes 2SEV1022L	2"	AK Industries custom fiberglass	48" x 60"	Liberty LSG200 Grinder	1 – ¼"	Liberty 2460	24" x 60"

Single Family Residential (SFR) Detached structures

SUBMERSIBLE, CENTRIFUGAL, NON-CLOG PUMPS				SUBMERSIBLE, CENTRIFUGAL, PD, GRINDER PUMPS			
Pump	Outlet	Sump	Size (d x h)	Pump	Outlet	Sump	Size (d x h)
AquaPro AS5	2"	AquaPro 50CA	22" x 23"	E/One DH071	1 – ¼"	E/One DH071	24" x 72"
Liberty LE 40 / Liberty LE 50	2"	P370 with ARC 18" Riser	21" x 38"	Liberty LSG200 Grinder	1 – ¼"	Liberty 2448	24" x 48"
Little Giant 9SN / 10SN	2"	Little Giant Pit+Plus Sr	22" x 32"	Liberty ProVore 380 Grinder	2"	P370/P380 with ARC 18" Riser	21" x 38"

Note: All individual lot pump systems must be a complete engineered package. Do not order materials until ISD approves the pump application, which includes a complete package including a pump, alarm panel, isolation and check valves, sump and sump extensions

(as required).

Individual parts of pump system are not acceptable by ISD.

GREASE TRAPS & INTERCEPTORS

Description: Grease Traps (Referred to in the UPC as Hydromechanical Grease Interceptors) for trash enclosures with a 4" connector.

Reference: Part II, Section 5

Manufacturer	Website	Product
Canplas	Canplas.com/endura	Endura Series
Jay R. Smith Manufacturing Company	Jrsmith.com/grease-interceptors	8000-8100 Series
Schier	Schierproducts.com	Great Basin (GB Series)
Zurn	Zurngreasetraps.net	Z1165, Z1170, Z1172, GT2700 Grease Interceptors
Oldcastle	oldcastleinfrastructure.com/product/grease-interceptors/	Custom-made vaults*

* Oldcastle custom-made vaults must be submitted to ISD for engineering approval



Canplas Endura Series



Jay R. Smith 8000-8100 Series



Schier Great Basin Series



Zurn Z1170

Notes: Models without a standard 4" connector shall be upgraded to 4". No field modifications to the inlet pipe size or location will be allowed, except by the manufacturer. If installed outside of enclosure, traffic rated lid is required. Polyethylene is an allowable material for the grease trap.

Miscellaneous

Reference: Section 03 40 00, Precast Concrete
Section 05 50 00, Miscellaneous Metal Work

Note: Any materials not on list must be approved by ISD.

Product	Manufacturer	Product
<i>D.E. Separation Tanks</i>	Hayward Pool Products	Model # C9002 SEP
	Pentair	Separation Tank 100
<i>Galvanizing Field Repairs</i>	Carboline®	Galvanox
<i>Manhole Sealing Tapes</i>	HubSett™	Rector Seal®
	J-K Polysource®	External Joint Wrap M-860
	Henry®	Rubr-Nek External Joint Wrap
	ConSeal®	CS-75 CS-101 Butyl Sealant for Precast Structures
<i>Transition Cements</i>	Weld-On®	ABS to PVC Transition Cement
	Oatey®	ABS to PVC Transition Green Solvent Cement
<i>Waterstops</i>	Newby	Rubber Water Stop Ring
	Garlock	Link-Seal
<i>Epoxy Coating</i>	Fernco	Mainstay® DS-5 Epoxy Coating



Waterstop Rings



HubSett™



Oatey® ABS-PVC



Weld-On® ABS-PVC