

ESTIMATED DISTRIBUTION OF MATERIAL LIST					
Lomitas Negras Phase 2					
Southern Sandoval County Arroyo Flood Control Authority					
ITEM NUMBER (not Bid Item No.s)	Deductive Alternate #	BUILD / PAY ITEM NUMBER	ITEM DESCRIPTION Complete in Place = C.I.P.	UNIT	ESTIMATED QUANTITY
			<b>GENERAL</b>		
1		1200	Construction Traffic Control and Barricading: including any and all access signs and permitting by the City of Rio Rancho, Complete	LS	1
2		1504	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	LS	1
3		1505	Control of Storm Water and Nuisance Flow: C.I.P	LS	1
4		1506	Construction Staking: Complete	LS	1
5		1508	Project Record Documents: Complete	LS	1
6		1510	Project Signs: Place at designations by SSCAFCA at beginning of project and R&D after project finish, Complete	EA	2
7		1510.1	Sign Remove and Replace: Existing roadway signs (2) along Obregon Rd. (south side), remove, store and replace, C.I.P.	EA	2
			<b>EARTHWORK</b>		
8		201	Clearing and Grubbing: Pond area clearing and grubbing including haul and disposal, dust abatement is required and incidental, Complete	ACRE	21
9		201	Clearing and Grubbing: North Stockpile Site clearing and grubbing including haul and disposal, dust abatement is required and incidental, Complete	ACRE	11
10		201	Clearing and Grubbing: South Stockpile Site clearing and grubbing including haul and disposal, dust abatement is required and incidental, Complete	ACRE	5
11		202	Excavation and Rough Grading: Excavation and rough grading to within 6-inches of finish grades on plans. Haul and dispose of excess soils off-site to SSCAFCA designated location within 6 mi radius included, compaction not required, dust abatement is required and incidental. Complete	CY	280,582
12		204	Fill Construction: Fill soil material <u>for embankment</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	5,530
13		204	Fill Construction: Fill soil material <u>for triangular slab below emergency spillway,</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	2,040

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14	1	204	Fill Construction: Fill soil material <u>for NE side of N. Trib. Arroyo west of access road,</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	850
15		204	Fill Construction: Fill soil material <u>for SW side of N. Trib. Arroyo west of embankment,</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	60
16		204	Fill Construction: Fill soil material <u>for S. side of Main Arroyo,</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	3,340
17		204	Fill Construction: Fill soil material <u>for SE Side of the N. Trib. Arroyo west of Saratoga,</u> when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	85
			<b>SOIL CEMENT</b> <b>Comments-Assumed 14% calculation could be 12%</b>		
18	1	513	Soil Cement: North Side of North Tributary Arroyo west of Maint. Access Rd., Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	777
19	1	509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, North Side of North Tributary Arroyo, Complete	TON	179
20		513	Soil Cement: North Side of North Tributary Arroyo between Saratoga Rd. and the Maint. Access Rd, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	612
21		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, North Side of North Tributary Arroyo, Complete	TON	141

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22		513	Soil Cement: South Side of North Tributary Arroyo (Pond Embankment), Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	1,266
23		509	Cement: Portland Cement (12% minimum) Type II-LA, for Soil Cement, South Side of North Tributary Arroyo, Complete	TON	291
24		513	Soil Cement: N. Trib. Arroyo Maintenance Access Rd. including 1 ft thick channel bank transitions, and grade control structure - North Tributary Arroyo, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	441
25		509	Cement: Portland Cement (12% minimum) Type II-LA, for Soil Cement, Maint. Access Rd. and 1 ft thick channel bank transitions, and grade control structure - North Tributary Arroyo, Complete	TON	101
26		513	Soil Cement: North Side of Main Arroyo (Pond Embankment and to furthest end past lat. weir) west of Saratoga Rd. and Grade Control Structure, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	2,512
27		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, North Side of Main Arroyo to Box Culverts at Saratoga, Complete	TON	578
28	2	513	Soil Cement: South Side of Main Arroyo west of Saratoga Rd. to the Flow Diversion Wall, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	2,605
29	2	509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, South Side of Main Arroyo from Box Culverts at Saratoga to Flow Diversion Wall, Complete	TON	599
30		513	Soil Cement: South Side of Main Arroyo west of Saratoga Rd. west of Flow Diversion Wall to upstream end, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	376
31		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, South Side of Main Arroyo west of Flow Diversion Wall to upstream end, Complete	TON	86

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32		513	Soil Cement: Emergency Spillway (excluding 1 ft thick triangular slab downstream) , Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	632
33		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement: Emergency Spillway (excluding large downstream triangular slab), Complete	TON	145
34		513	Soil Cement: Emergency Spillway large downstream 1 ft thick triangular slab, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	1,133
35		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement: Emergency Spillway large downstream 1 ft thick triangular slab), Complete	TON	261
36		513	Soil Cement: Lateral Weir Rundown Chute and Energy Dissipator, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	1,796
37		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, Lateral Weir Rundown Chute and Energy Dissipator, Complete	TON	413
38		513	Soil Cement: North Side of Main Arroyo to adjacent to North Spoil Pile, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	1,479
39		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, North Side of Main Arroyo adjacent to North Spoil Pile, Complete	TON	340
40		513	Soil Cement: South Side adjacent to South Spoil Pile, Construct soil cement structures with on-site soils as aggregate including excavation, subgrade preparation, and backfill, C.I.P.	CY	898
41		509	Cement: Portland Cement (12% minimum) Type II-LA for Soil Cement, South Side of Main Arroyo to Box Culverts at Saratoga, Complete	TON	207

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			<b>STRUCTURAL CONCRETE</b>		
			<b>FLOW DIVERSION WALL AND ON GRADE SLAB</b>		
42		511000	Structural Concrete Class A: Structural RPCC for Flow Diversion Wall, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	163
43		204	Fill Construction: Fill soil material, when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	686
44		301	Subgrade Preparation: 12" at 95% compaction, C.I.P.	SY	488
			<b>LATERAL WEIR CONCRETE CAP</b>		
45		511000	Structural Concrete Class A: Structural RPCC for Lateral Weir, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	19
			<b>EMERGENCY SPILLWAY</b>		
46		511000	Structural Concrete Class A: Structural RPCC for Emergency Spillway, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	12
47		204	Fill Construction: Fill soil material, when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	46
48		301	Subgrade Preparation: 12" at 95% compaction, C.I.P.	SY	40

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			<b>PRINCIPAL SPILLWAY</b>		
49		511000	Structural Concrete Class A: Structural RPCC for Principal Spillway, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	44
50		541200	Structural Steel for Miscellaneous Structures: grate and steel support beam, includes all materials and labor, C.I.P.	LS	1
51		204	Fill Construction: Fill soil material, when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	76
52		301	Subgrade Preparation: 12" at 95% compaction, C.I.P.	SY	135
			<b>SEDIMENT STAGE AND GRADING MARKER</b>		
53		511000	Structural Concrete Class A: Structural RPCC for Sediment Stage Marker, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	5
54		541200	Structural Steel for Miscellaneous Structures: install steel sediment stage marker post, includes all materials, labor, C.I.P.	LBS	3,546
			<b>SLAB at 8 ft Diameter Storm Drain Manhole</b>		
55		511000	Structural Concrete Class A: Structural RPCC for Storm Drain 8 ft MH slab, 4,000 psi, including excavation, subgrade prep, engineered fill, backfill, formwork, includes rebar, C.I.P.	CY	2
56		204	Fill Construction: Fill soil material, when obtained from within the limits of construction, includes, subgrade preparation, blending / mixing to obtain homogeneous material / construction in lifts, rough and final grading, dust abatement is required and incidental, C.I.P.	CY	2
57		301	Subgrade Preparation: 12" at 95% compaction, C.I.P.	SY	5

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			<b>RIPRAP and RIPRAP CHANNELS</b>		
58		602010	Rip-Rap Class B: Drainage Channel 1 for North Stockpile Site, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	142
59		602010	Rip-Rap Class B: Drainage Channel 2 for North Stockpile Site, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	472
60		602010	Rip-Rap Class B: Drainage Channel 3 for North Stockpile Site, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	212
61		602010	Rip-Rap Class B: Drainage Channel 4 for South Stockpile Site, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	589
62		602010	Rip-Rap Class B: Drainage Channel 5 for South Stockpile Site, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	204
63		602010	Rip-Rap Class B: Drainage Channel 6 for West Pond Slope, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	41
64		602010	Rip-Rap Class B: Channel 6 downstream pad (15' x 15' x 1.5'), includes riprap, non-woven filter fabric and placement, C.I.P.	CY	13
65		602020	Rip-Rap Class C: Both Sides of Energy Dissipation Chute, and Below Energy Dissipation Final Step, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	204
66		602020	Rip-Rap Class C: Obregon Road Rundown, includes riprap, non-woven filter fabric and placement, C.I.P.	CY	98
67		204	Fill Construction: Fill soil material for Obregon Rd. Rundown channel construction in lifts, rough and final grading to rundown invert elevations, C.I.P.	CY	143
			<b>SMOOTH INTERIOR CORRUGATED METAL PIPES</b>		
68		570.1	Storm Sewer Pipe Installations: Principal Spillway 36-inch Smooth interior corrugated pipe, includes material, C.I.P. (joints must maintain min. 10.8 psi pressure for a min. of 10 minutes), Contech UltraFlo Pipe or approved equal	LF	284
69		701.1	Trenching, Excavation and Backfill: Principal Spillway Trenching, Backfilling and Compaction, for 18" - 36" diameter drain, up to 8' in depth, pipe not incl., Complete	LF	284

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70		570.2	Storm Sewer Pipe Installations: Obregon Rd. 42-inch Smooth interior corrugated pipe, includes material, C.I.P. (joints must maintain 10.8 psi pressure for a min. of 10 minutes), Contech UltraFlow pipe or approved equal	LF	717
71		701.2	Trenching, Excavation and Backfill: Obregon Storm Drain Trenching, Backfilling and Compaction, for 42" - 60" diameter drain, up to 8' in depth, pipe not incl., Complete	LF	717
			<b>MANHOLES</b>		
72		660.024	Excavation, Backfill and Compaction for Manhole Type C - 6 Ft. Diameter: Obregon Storm Drain Manhole, 6' dia., Type "C", 10 ft -to 14 ft deep, Complete	EA	1
73		660.042	Excavation, Backfill and Compaction for Manhole Type C - 8 Ft. Diameter: Obregon Storm Drain Manhole, 8' dia., Type "C", 6 ft to 10 ft deep, Complete	EA	1
74		662024	Manhole Type C - 6 Ft. Diameter: Obregon Storm Drain Manhole, 6' dia., Type "C", 10 ft -to 14 ft deep, Complete, Contech UltraFlow or approved equal	EA	1
75		662042	Manhole Type C - 8 Ft. Diameter: Obregon Storm Drain Manhole, 8' dia., Type "C", 6 ft to 10 ft deep, Complete, Contech UltraFlow or approved equal	EA	1
			<b>OTHER ITEMS</b>		
76		410.6.4	Metal Pipe Access Control Gate: Pipe Gate, 16' wide, C.I.P.	EA	1
77		410	Wood Posts: Twisted 5 strand barbless wire fence: West side of Pond, fence including wood posts, mortises and concrete, C.I.P.	LF	1,387
78		410	Wood Posts: Twisted 5 Strand Barbless Wire Fence: Main Branch South Bank, fence including wood posts, mortises and concrete, C.I.P.	LF	1,700
79		410	Wood Posts: Twisted 5 Strand Barbless Wire Fence: North Trib. North Bank, fence including wood posts, mortises and concrete, C.I.P.	LF	1,225
80		410.1	Steel Posts: Twisted 5 strand barbless wire fence: includes wire, 4 in. dia. SCH 40 A53 Grade B steel pipe, mortises, 7 ft long, 4 in. steel caps, welding, concrete, paint, all materials and labor, (Top of Pond Embankment from Flow Diversion Wall east along Main Arroyo and North Trib. Arroyo). C.I.P.	LF	1,722
81		662.1	Storm Drain Pyramid Structure, C.I.P., StormRax or approved equal	EA	1



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82		302	Aggregate Base Course: Pond Access Road, includes furnishing, placement and compaction of aggregate base course, C.I.P.	SY	1,797
83		1509	Remove and Dispose Storm Drain: Remove and dispose existing Obregon Rd. storm drain, outfall concrete structure and appurtenances, includes haul and disposal fee. Complete.	LS	1
84		607.2.3.1	Chain Link Fence: Saratoga Box Culverts upstream wingwalls: Build 5 ft tall fence, includes posts, rails, fasteners. C.I.P.	LF	32
85		607.2.3	Remove and Dispose Chain Link Fence: Saratoga Box Culverts upstream wingwalls (Remove and Dispose of existing fence & posts incidental), includes posts, rails, fasteners. C.I.P.	LF	32
86		1509.1	Remove and Dispose Wire Enclosed Riprap: Remove and dispose existing wire enclosed riprap and appurtenances at Saratoga Box culverts upstream wingwalls, includes haul and disposal fee. Stockpile stones and reuse at Channel 6 per plans. Complete.	LS	1
87		1506.1	Access control fencing around archeological site including remove and dispose after project is completed, Complete	LF	100
88		905	SAS Cleanout Adjustments: Elevate 7 - 4-inch diameter PVC Pipe SAS cleanouts. Includes 4-inch PVC Sched. 40 pipes, 4-inch caps, appurtenances, 24-inch x 24-inch x 4-inch concrete pads. Includes all materials, labor. C.I.P.	LS	1
89		1512	Weep Holes for lateral weir / energy dissipation structure: 3-inch PVC pipe Schedule 40, 3/4 inch crushed gravel, non-woven geotextile fabric, metal screen (1/4 inch X 1/4 inch openings)	LS	1
90		2250	Stationary Steel Posts: Includes 4 in. dia. SCH. 40 A53 Grade B steel pipe, 5 ft. 2 in. long, cement, paint, bolts and nuts, 4 in. steel caps, all materials and labor, (Lateral Weir and Emergency Spillway). C.I.P.	EA	24
91		2280	Steel Cable: Includes 1 / 2 in. dia. steel cable, bolts and nuts, metal cable alert signs, all materials and labor. C.I.P.	LF	530

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			<b>SEEDING with no GRAVEL MULCH</b>		
92		1012	Native Grass Seeding: Main Arroyo West of Saratoga (South Side), Seed (Hydro Seed) all slopes and over bank disturbed areas, soil amendments and fertilizer not required. C.I.P.	ACRE	1
93		1012	Native Grass Seeding: North Trib. Arroyo West of Saratoga (North Side), Seed (Hydro Seed) all slopes and over bank disturbed areas, soil amendments and fertilizer not required, C.I.P.	ACRE	1
94		1012	Native Grass Seeding: Contractor Yard Property West of Saratoga, Seed (Hydro Seed) all slopes and over bank disturbed areas, soil amendments and fertilizer not required, C.I.P.	ACRE	1
95		1012	Native Grass Seeding: North Stockpile, Seed (Hydro Seed) all slopes and over bank disturbed areas, soil amengments and fertilizer not required, C.I.P.	ACRE	11
96		1012	Native Grass Seeding: South Stockpile Site, Seed (Hydro Seed) all slopes and over bank disturbed areas, soil amendments and fertilizer not required, C.I.P.	ACRE	5
			<b>SEEDING with GRAVEL MULCH</b>		
97		1012.6.2.3	Seeding with Gravel Mulch: LOCATION 1 -WEST BANK, includes soil preparation, install 2-inch thick gravel and seed, soil amendments and fertilizer not required. C.I.P.	ACRE	2.2
98		1012.6.2.3	Seeding with Gravel Mulch: LOCATION 2-NORTH BANK, includes soil preparation, install 2-inch thick gravel and seed, soil amendments and fertilizer not required. C.I.P.	ACRE	1.0
99		1012.6.2.3	Seeding with Gravel Mulch: LOCATION 3-SOUTH BANK, includes soil preparation, install 2-inch thick gravel and seed, soil amendments and fertilizer not required. C.I.P.	ACRE	1.3
			<b>OBREGON ROAD CURB AND GUTTER</b>		
100		343	Removed and Dispose Existing Asphalt Pavement: Obregon Road existing pavement, asphalt concrete, sawcut, remove & dispose, any thickness, Complete	SY	243
101		340	Curb and Gutter: Obregon Road Curb & Gutter, standard, Portland Cement concrete, incl. subgrade preparation, C.I.P.	LF	875

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<b>SARATOGA ROAD - DRAINAGE IMPROVEMENTS (Smith Engineering Design)</b>					
102		301	Subgrade Preparation: Saratoga Road Subgrade Prep. for roads, 12" at 95% compaction, C.I.P.	SY	40
103		302	Saratoga Road Aggregate base course for roads, 6" at 95% compaction, C.I.P.	SY	40
104		343	Removed and Dispose Existing Asphalt Pavement: Saratoga Rd. Road Existing Pavement, Asphalt Concrete, sawcut, remove & dispose, any thickness, Complete	SY	40
105		336	Saratoga Road Arterial Asphalt Concrete, SP-C, 3 inch thick, (Striping is incidental) C.I.P.	SY	40
106		336	Saratoga Road - Asphalt Concrete Drainage Swales, SP-C, 3 inch thick, C.I.P.	SY	215
107		341	Saratoga Road - Extruded Asphalt Curb, C.I.P.	LF	145
<b>SARATOGA ROAD DIP SECTION, RUNDOWN and BOX CULVERT IMPROVEMENTS</b>					
<b>Wilson &amp; Company Design</b>					
108		202	Excavation and Rough Grading: Excavation and rough grading to within 6-inches of finish grades on plans. Haul and dispose of excess soils off-site to SSCAFCA designated location within 6 mi radius included, compaction not required, dust abatement is required and incidental. Complete (NM Std. Spec. 202)	CY	123
109		343	Removed and Dispose Existing Asphalt Pavement: Saratoga Rd. Road existing pavement at proposed concrete valley gutter and at existing drainage rundown east of Saratoga Rd., asphalt concrete, sawcut, remove & dispose, any thickness, Complete (NM Std. Spec. 343)	SY	226
110		301	Subgrade Preparation: Saratoga Road Subgrade Prep. Under concrete valley gutter for roads, 12" at 95% compaction, C.I.P. (NM Std. Spec. 301)	SY	44
111		101.1	Build Concrete Valley Gutter in Saratoga Rd. - Unreinforced concrete, (Striping is incidental) Complete (NM Std. Spec. Sect. 101)	CY	10
112		101.2	Reinforced Concrete Drainage Rundown from Saratoga Rd. to box culvert, incl. rebar, subgrade prep, C.I.P. (NM Std. Specs. 101 & 602 & Std. Dwg. 2260 - "Type B" 10-ft bot. width, 1 ft deep)	CY	16
113		301	Subgrade Preparation: Saratoga Road Subgrade Prep. Under Conc. Rundown, 12" at 95% compaction, C.I.P. (NM Std. Spec. 301)	SY	94
114		340.1	Header Curb (Modified Cutoff Wall), Portland Cement Concrete, incl. subgrade prep. C.I. P.	LF	42

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115		301	East of Saratoga Rd. (asphalt swale), Subgrade Prep. for roads, 12" at 95% compaction, C.I.P. (NM Std. Spec. 301)	SY	85
116		336	East of Saratoga Rd. - Asphalt Concrete Drainage Swale, SP-C, 3 inch thick, C.I.P. (NM Std. Spec. 336)	SY	85