Subject:	**Preliminary Construction Schedules for Central and Eastern Corridor Options (Final Draft)**
Project feature:	Projectwide
Prepared for:	California Department of Water Resources (DWR) / Delta Conveyance Office (DCO)
Prepared by:	Delta Conveyance Design and Construction Authority (DCA)
Copies to:	File
Date/Version:	December 23, 2021
Reference no.:	EDM_PW_CE_TMO_Prel-Const-Schedule-C-E-Options_000986_V02_FD_20211223

1. Purpose and Introduction

The Delta Conveyance Project (Project) would include intakes along the Sacramento River between its confluences with American River and Sutter Slough. The Project also includes a tunnel extending from the intakes to a pumping plant and forebay at the downstream terminus of the main tunnel in the South Delta (the Southern Forebay). Water would either flow by gravity or be lifted by the pumping plant from the tunnel into the Southern Forebay (SF). Discharge from the SF would occur at the southern end of the reservoir, flowing through dual tunnels into the South Delta Conveyance facilities (SDCF) for connection to the existing State Water Project Harvey O. Banks Pumping Plant and possibly to the Central Valley Project C.W. Bill Jones Pumping Plant.

This technical memorandum (TM) provides a narrative for construction schedules produced in support of the Project. Separate schedules were provide for both the Central and Eastern corridors that were investigated in association with the Project's Notice of Preparation (DWR, 2020) as shown in Figure 1.

2. Construction Schuedules

The gantt charts provided in the attachment to this TM represent the sequenced construction activities for the following alternatives:

1) Option 1A: Central Alignment 6000 cubic feet per second (cfs) vertical plate screen intake
2) Option 1B: Central Alignment 6000 cfs tee screen intake
3) Option 2A: Eastern Alignment 6000 cfs vertical plate screen intake
4) Option 2B: Eastern Alignment 6000 cfs tee screen intake

These conceptual schedules are intended to provide relative guidance for the overall duration of the construction project and are not associated with specific notice-to-proceed dates.

The schedules were developed using scheduling software and provide a conceptual sequence of construction activities that could be used to complete the facility components. They are based on the 2020 footprint design information available at the time the schedule was developed and assumed number of construction packages (DCA, 2021). They only delineate one possible sequence of work and are not meant to dictate contractor means and methods, encapsulate possible phasing activities that could shorten the overall schedule or accommodate unforeseen elements that drive critical path.

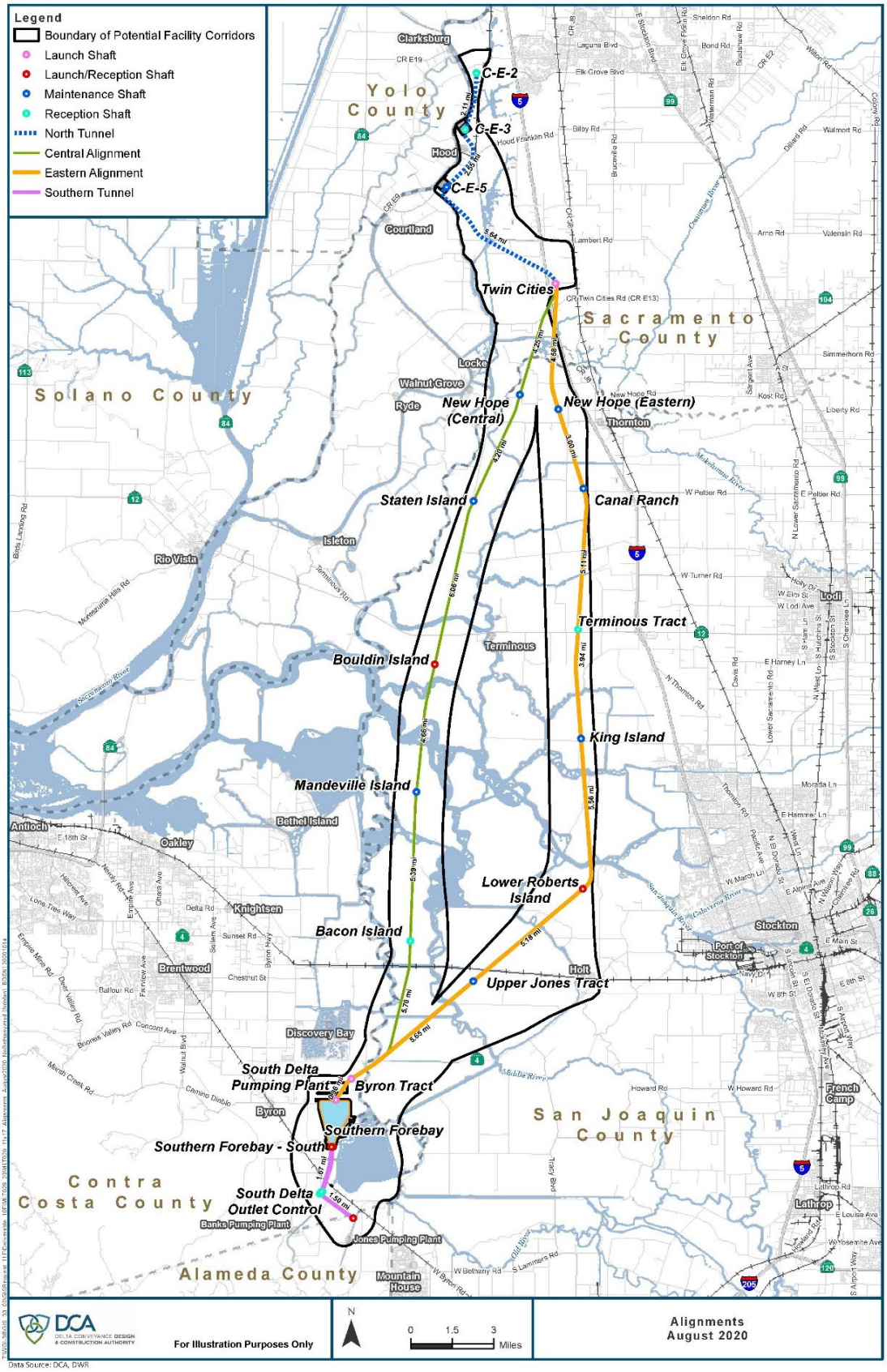


Figure 1. Proposed Conveyance System

The final sequence of activities and duration of the schedule will depend upon the actual execution of the work, the contractor's actual means and methods, definition and variation of the design, abnormal conditions, and other variable factors. Therefore, a final schedules should be expected to vary from the conceptual schedules presented here.

3. Construction Packages Sequencing

The schedules developed reflect the sequencing of various preliminary construction packages, including:

- Early works
- Intakes
- Tunnels and Shafts
- Pumping Plant
- Southern Forebay
- South Delta Conveyance Facilities

3.1 Early Works

Early works packages include work required for provision of access and utilities to each work site. Two road access works packages have been assumed for the north and south parts of the project area. The sequence of the individual access works has been set to match the order of the main feature works. Rail access, power supply and other utility provisions will also be completed as early works to support the main feature contracts.

3.2 Intakes

Each intake structure has been considered as a separate contract with a one year stagger to the start of each. The sequence of the intakes is from south to north to reflect the direction of the northern tunnel drive so that the inlet shafts are ready for the advancing tunnel drive. The sequence of construction for intakes includes:

- Stage 1 for preparation of temporary levee embankment and temporary diversion of State Route 160
- Stage 2 for construction of the cofferdam and intake structure
- Stage 3 for completion of the sediment basins and associated earthworks

The stages were established for scheduling purposes and do not match the stages shown on the drawings, which are intended to support overall sequencing of flood control features.

3.3 Tunnels and Shafts

Five tunnel contracts are assumed in the schedules. Tunnel drive contracts include shaft construction. Preparation of the shaft working pads is also included except at the intake and SF structures. At sites with tunnel drive in opposite directions, the first tunnel contract will include completion of a double launch shaft before handing over one cell of the shaft to the second contract. At the Southern Complex, the drive to the north (Reach 4) will launch from the Southern Forebay Inlet Structure Tunnel Launch Shaft and then transfer tunnel operations to the separate Byron Tract Working Shaft approximately 1 mile to the north, thereby releasing the Southern Forebay Inlet Structure Tunnel Launch Shaft to the pumping plant contractor.

Reception and maintenance shafts will be included in the tunnel contracts with the construction sequenced to follow on from the launch shaft in the direction of tunnel drive. Receptions shafts that receive two tunnel drives shall be included in the contract that is planned to arrive first.

Tunnel excavation rates were established from various tunnels of similar size and similar ground conditions utilizing the same type of equipment. The rates were determined using historical data for segmental ring erection time from published data; Colzani (2001) and Davies (2009). Using similar build up of rates the overall average for tunnel excavation for these 36 feet inside diameter tunnels using a segmental pre-cast concrete lining on a 20-hour work day was estimated at approximately 40 linear feet per day, taking into account TBM start up and stoppages.

3.4 Pumping Plant

The pumping plant contract includes the foundation/ground treatment works associated with the raised embankment surrounding the structure. On completion of the embankment area by the forebay contractor the pumping plant will continue with construction of the box structure from the raised embankment level. Following handover of the outlet shaft from the Reach 4 tunnel contract the wet well conduit and overflow structures will also be completed by the pumping plant contract.

3.5 Southern Forebay

The SF contract will include overall preparation of the southern complex site with site clearance, borrow activities, and transfer of reusable tunnel material (RTM) to the site by rail. Earthmoving activities initially include completion of the extended pad embankments for the pumping plant and the Southern Forebay Inlet Structure Tunnel Launch Shaft. Then, preloading of the east embankment areas with borrow or RTM before removal, and then final embankment work with foundation improvements as necessary. Completion of the spillway and Southern Forebay Outlet Structure will follow embankment and the work required for the southern dual tunnel drives.

3.6 South Delta Conveyance Facilities

Initial partial excavation works, including transport to the SF work area, for the SDCF is scheduled before construction of the two receiving shafts for the southern dual tunnel drives. The remaining excavation and completion of the South Delta Outlet Structure then follows completion of the tunnels with removal of the tunnel boring machine (TBM) from the receiving shafts. The construction of the California Aqueduct Control Structure take place between the initial and final stage of the outlet construction during the tunnel drives.

4. Options Considered

The schedules also reflect construction of two separate intake screening options, vertical flat plate screens and cylindrical tee screens. Schedules also were considered for several project design capacities, as presented in the NOP and as described below.

4.1.1 Intake Screen Options

Both vertical flat plate and cylindrical tee screen options were considered for the proposed intakes. Both types of intake follow the same three stage construction sequences. The key difference is between the construction of the box conduit for the vertical screen and the pipe jack for the T-screen. The box conduit

is constructed in two phases as the temporary road is diverted during stages 2 and 3 of the sequence. The pipes for the T-screen are installed during stage 2 as the intake structure is built within the cofferdam.

4.1.2 Project Design Capacities

Schedules have been developed for each of the project design capacity options with adjustments to the activity durations associated with the change in size of structures. The northern tunnel length between the Twin Cities Complex and the intakes changes depending on the alternative that use one, two or three intake structures. All other tunnels remain the same length. Other structure size changes include:

- Intakes sized for 1500 cubic feet per second (cfs) and 3000 cfs
- Tunnel diameters range from 21 foot to 40 foot internal diameter which also effects RTM generation rates
- Shaft diameters that change in proportion to the tunnel size
- Pumping plant area changes with the number of pumps required for each flow rate
- SF is unchanged for the various capacities
- SDCF are similar for the 3,000, 4,500, and 6,000 cfs project design capacity. For the 7,500 cfs project design capacity, the dual tunnels are larger in diameter and additional features are included to account for an additional 1500 cfs of conveyance to the Jones Pumping Plant inlet canal Delta-Mendota Canal (DMC).

The sequencing logic for each of the options remains the same except the 7500 cfs option which includes an additional intake and tunnel segment for Intake C-E-2 and another one to the DMC with associated inlet, outlet and control structures within the SDCF area. These flow option schedules follow the same overall sequence as the 6000 cfs options included in the attachments to this document.

5. References

The following publications, documents, or other information sources have been cited in this TM:

California Department of Water Resources (DWR). 2020. Notice of Preparation of Environmental Impact Report for the Delta Conveyance Project. January 15. (https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Delta-Conveyance/Delta_Conveyance_Project_NOP_20200115_508.pdf?la=en&hash=74B80DAAE5B9C4BC2EB0619B6A252011F72D1087)

Delta Conveyance Design and Construction Authority (DCA). 2021. Draft Engineering Project Report, Volume 2 - Engineering Concept Drawings. Final Draft.

G Colzani, J. Strid, S. Cole & D. Olsen. (2001) Tunneling at Hollywood Reservoir. Proceedings of the Rapid Excavation and Tunneling Conference 2001.

J. Davies, K. Chin, J. Ohnigian & J. Stokes (2009) Construction of the North Dorchester Bay CSO Storage Tunnel in Boston. Proceedings of the Rapid Excavation and Tunneling Conference 2009.

6. Document History and Quality Assurance

Reviewers listed have completed an internal quality review check and approval process for deliverable documents that is consistent with procedures and directives identified by the Engineering Design Manager (EDM) and the DCA.

Approval Names and Roles			
Prepared by	**Internal Quality Control review by**	**Consistency review by**	**Approved for submission by**
Martin Ellis / EDM BIM Integration Lead	Phil Ryan / EDM Design Manager	Gwen Buchholz / DCA Environmental Consultant	Terry Krause / EDM Project Manager

This interim document is considered preliminary and was prepared under the responsible charge of Martin Ellis, California Professional Engineering License C83803.

Note to Reader

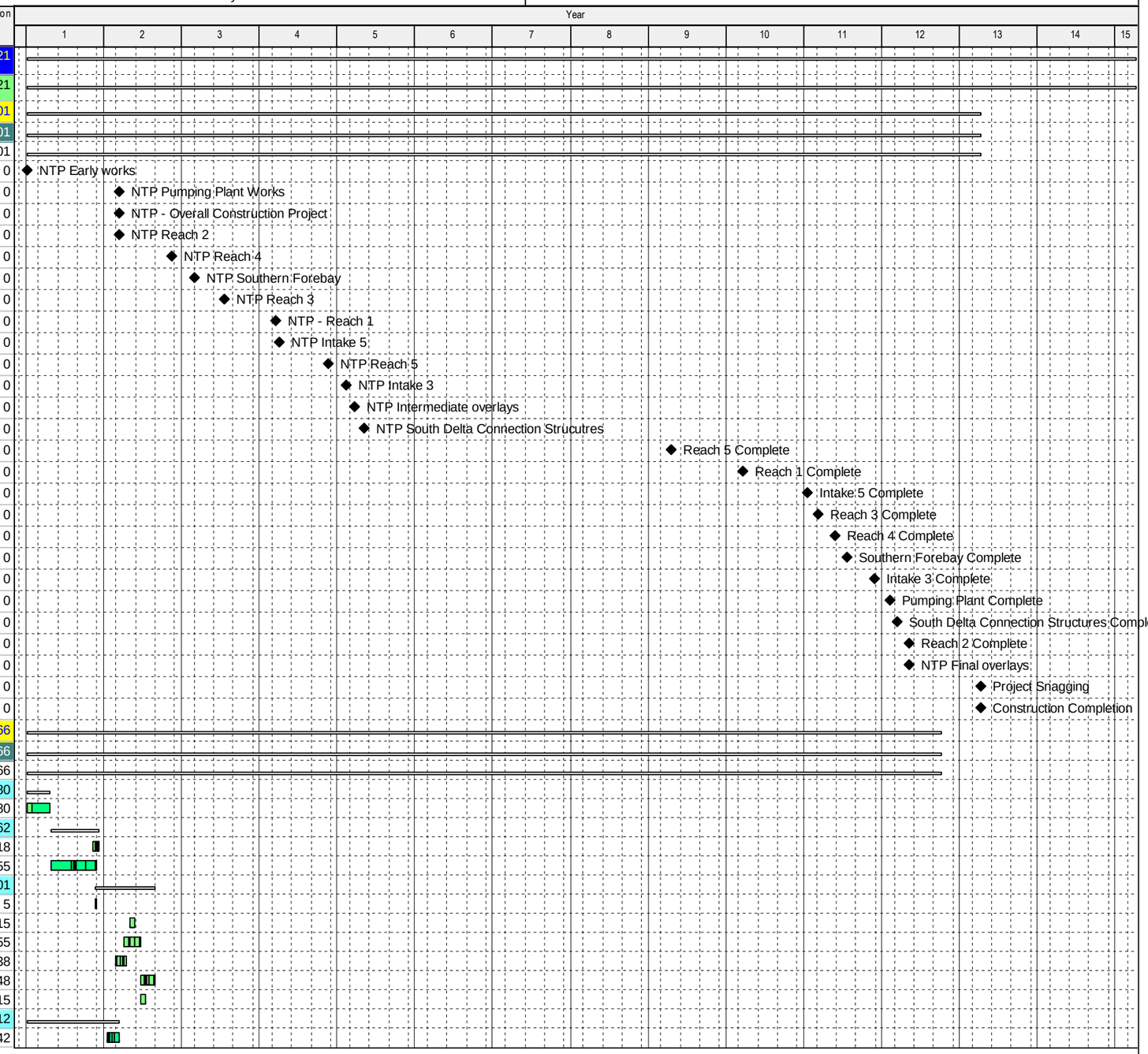
This is an early foundational technical document. Contents therefore reflect the timeframe associated with submission of the initial and final drafts. Only minor editorial and document date revisions have been made to the current Conformed Final Draft for Administrative Draft Engineering Project Report version.

Attachment 1
Construction Schedules

Attachment 1. Construction Schedules

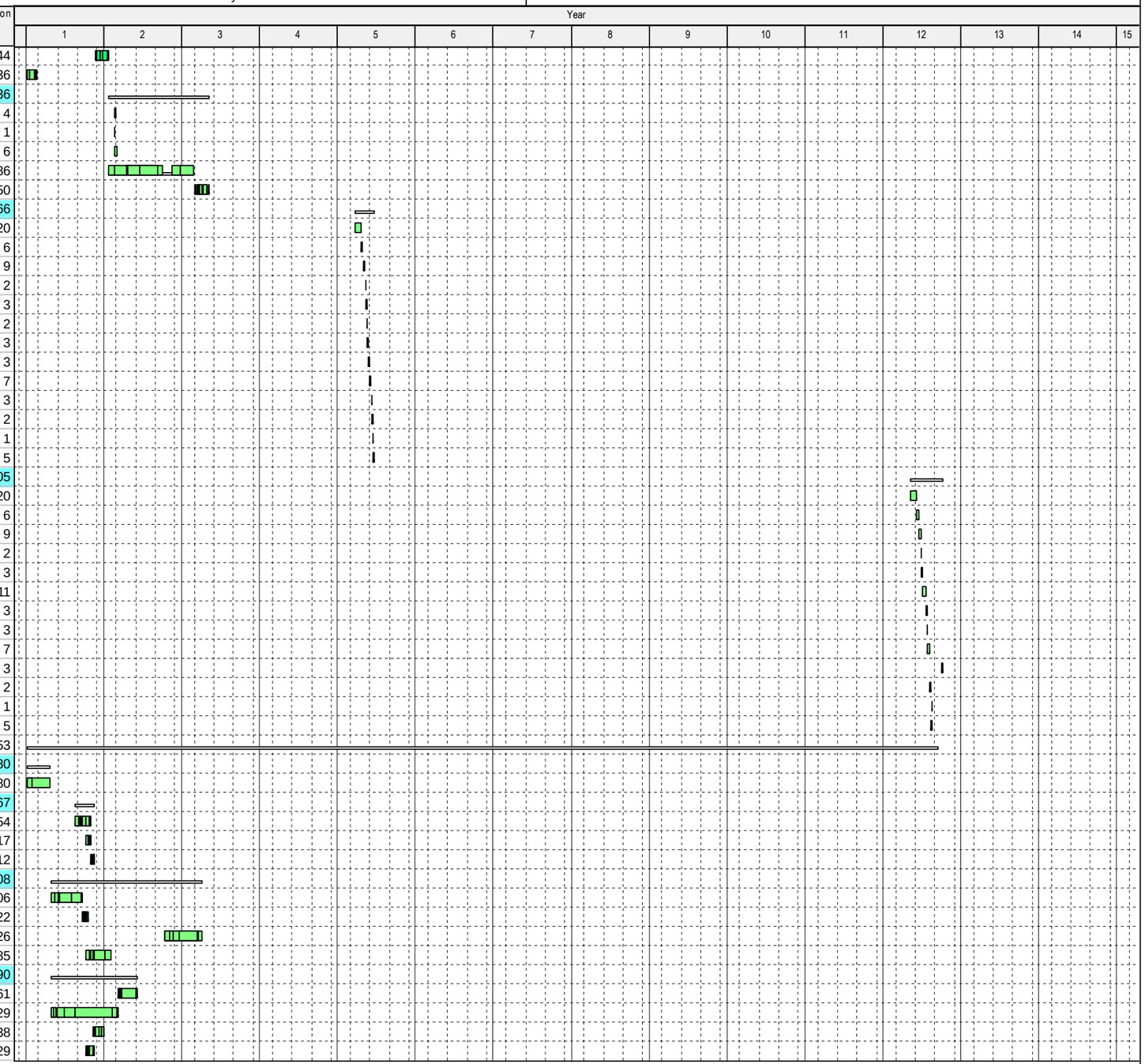
Construction Schedule - Option 1A: Central Alignment 6000 cfs Vertical Plate Screen Intake

Activity ID	Activity Name	Original Duration
DELTA CONVEYANCE PROJECT EDM - Central 1A 2020-07 Footprint		3721
CO CONSTRUCTION		3721
CO.PG PROGRAMMATIC MANAGEMENT		3201
CONSTRUCTION MILESTONES		3201
Construction Milestones		3201
G1010	NTP Early works	0
K1000	NTP Pumping Plant Works	0
A1000	NTP - Overall Construction Project	0
E1000	NTP Reach 2	0
C1000	NTP Reach 4	0
J1000	NTP Southern Forebay	0
D1000	NTP Reach 3	0
F1010	NTP - Reach 1	0
G1000	NTP Intake 5	0
B1000	NTP Reach 5	0
G9010	NTP Intake 3	0
I1000	NTP Intermediate overlays	0
G1020	NTP South Delta Connection Strucutres	0
B9000	Reach 5 Complete	0
F9002	Reach 1 Complete	0
G9020	Intake 5 Complete	0
D9000	Reach 3 Complete	0
C9000	Reach 4 Complete	0
J9000	Southern Forebay Complete	0
G9000	Intake 3 Complete	0
K9000	Pumping Plant Complete	0
G1030	South Delta Connection Structures Complete	0
E9000	Reach 2 Complete	0
I1010	NTP Final overlays	0
Z9000	Project Snagging	0
Z9010	Construction Completion	0
CO.EW CONSTRUCTION EARLY WORKS		3066
ROAD WORKS		3066
NORTH ROAD WORKS		3066
MOB/FACILITIES NORTH		80
771003000 - Mobilization - North		80
PARK AND RIDES		162
771314000-Employee Park & Ride - Rio Vista - Both		18
771315000-Employee Park & Ride - Hood Franklin - Both		155
ACCESS TO INTAKES		201
771120000 - Hood Franklin Road Widening		5
771130000-Intakes Access Road - Both		15
771150000 - C-E-5 Intake Access Road		55
771460000 - Lambert Road Widening		38
771840000 - Intake #3		48
771860000-Intakes - SR160 - Both		15
ACCESS TO TWIN CITIES		312
771420000 - Dierrsen Road Paving		42



TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
771430000	Franklin Blvd Improvements at Dierrsen	44
771470000	Twin Cities Road Widening (East)	36
ACCESS TO N MID DELTA		336
771360000	New Hope Tract/W Lauffer Rd Widening	4
771510000	Staten Island Maintenance Shaft Access Road	1
771510000	Staten Island Maintenance Shaft Access Road - Cent	6
771550000	Highway 12 Widening (7 miles)	286
771560000	Bouldin Island Rd	50
INTERMEDIATE OVERLAYS		66
771006300	Mobilization - Intrm Overlay - Both	20
771120000	Hood Franklin Road - Both	6
771130000	Intakes Access Road - Both	9
771140000	Bruns Way Widening - Both	2
771150000	C-E-5 Intake Access Road - Both	3
771350000	Western Farms Road - South - Both	2
771420000	Dierrsen Road Paving - Both	3
771430000	Franklin Blvd Improvements at Dierrsen - Both	3
771460000	Lambert Road Widening - Both	7
771470000	Twin Cities Road Widening (East) - Both	3
771610000	E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
771840000	Intake #3 Access Road - Both	1
771990000	Intake #2 Access Road - Option	5
FINAL OVERLAYS		105
771006600	Mobilization - Final Overlay - Both	20
771120000	Hood Franklin Road - Both	6
771130000	Intakes Access Road - Both	9
771140000	Bruns Way Widening - Both	2
771150000	C-E-5 Intake Access Road - Both	3
771210000	Southern Forebay Byron Highway New Interchange B	11
771420000	Dierrsen Road Paving - Both	3
771430000	Franklin Blvd Improvements at Dierrsen - Both	3
771460000	Lambert Road Widening - Both	7
771470000	Twin Cities Road Widening (East) - Both	3
771610000	E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
771840000	Intake #3 Access Road - Both	1
771990000	Intake #2 Access Road - Option	5
SOUTH ROAD WORKS		3053
MOB/FACILITIES SOUTH		80
771003005	Mobilization - South	80
PARK AND RIDES		67
771310000	Employee Park & Rides - Byron	54
771311000	Employee Park & Ride - Bethany	17
771313000	Employee Park & Ride - Charter Way	12
ACCESS TO S MID DELTA		508
771540000	Lower Jones Tract Road	106
771610000	Holt RR Overpass BNSF	22
771630000	Central Mandeville Island Access Road	126
771640000	Central Bacon Access Road	85
ACCESS TO SOUTHERN COMPLEX		290
771140000	Bruns Way Widening	61
771210000	Southern Forebay Byron Highway New Interchange	229
771340000	Discovery Bay Blvd Access Roads	38
771350000	Western Farms Road	29



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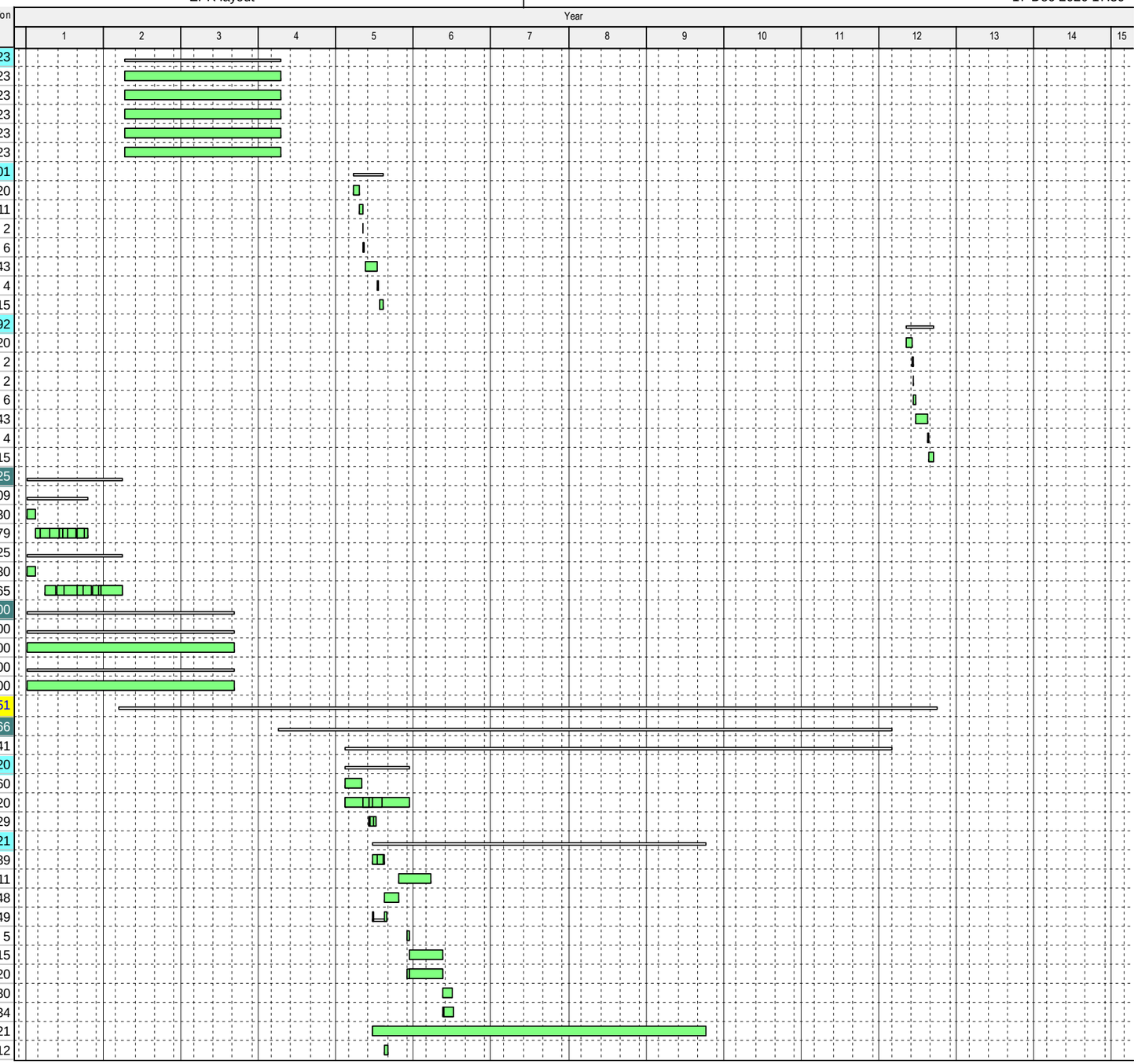
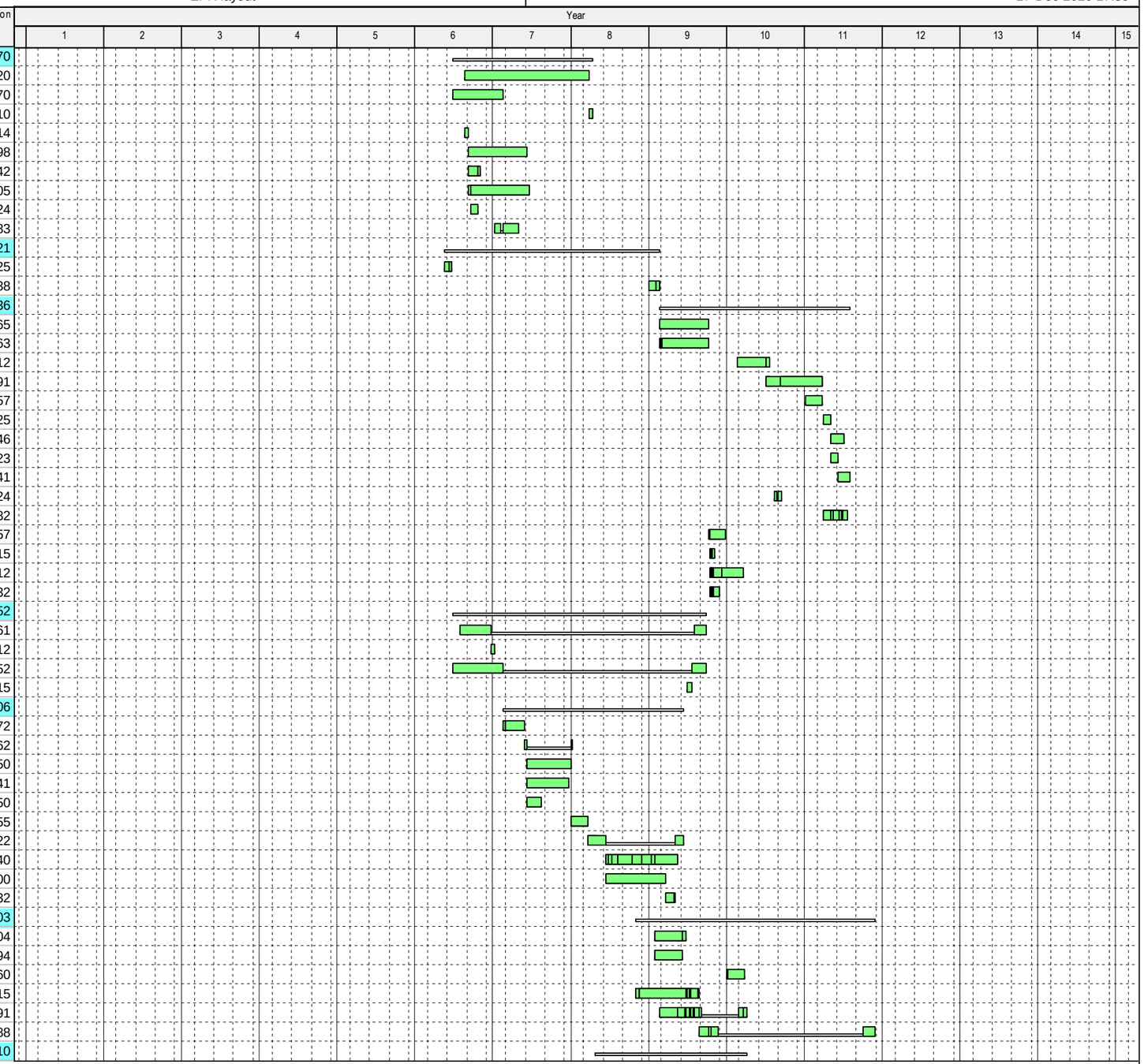
Activity ID	Activity Name	Original Duration
	ROAD MAINTENENACE	523
	771360000-New Hope Tract/W Lauffer Rd Widening - Central	523
	771510000-Staten Island Maintenance Shaft Access Road - Cent	523
	771540000-Lower Jones Tract Road - Central	523
	771630000-Central Mandeville Island Access Road - Central	523
	771640000-Central Bacon Access Road - Central	523
	INTERMEDIATE OVERLAYS	101
	771006310-Mobilization - Intrm Overlay - Central	20
	771210000-Southern Forebay Byron Highway New Interchange B	11
	771340000-Discovery Bay Blvd - Central	2
	771510000-Staten Island Maintenance Shaft Access Road - Cent	6
	771550000-Highway 12 Widening - Central	43
	771560000-Bouldin Island Rd - Central	4
	771860000-Intakes - SR160 - Both	15
	FINAL OVERLAYS	92
	771006610-Mobilization - Final Overlay - Central	20
	771340000-Discovery Bay Blvd - Central	2
	771350000-Western Farms Road - South - Both	2
	771510000-Staten Island Maintenance Shaft Access Road - Cent	6
	771550000-Highway 12 Widening - Central	43
	771560000-Bouldin Island Rd - Central	4
	771860000-Intakes - SR160 - Both	15
	RAIL WORKS	325
	NORTHERN GLANDEVILLE TRACT RAIL ACCESS	209
	772003000 - Mobilization	30
	772017010 - Dierssen Rail Yard	179
	SOUTHERN FOREBAY RAIL ACCESS	325
	772003005-Mobilization - Both - South	30
	772019 - Byron Tract Rail Yard	265
	POWER AND UTILITY EARLY WORKS	700
	POWER/ELECTRIC WORKS	700
	601008 - Electrical	700
	UTILITY LOGISTICS	700
	Utility Logistics	700
	CO.MAJOR CONSTRUCTION	2751
	IN INTAKES	2066
	IN INTAKE 3	1841
	Mobilization & Operations	220
	113003000 - Intake 3 Contractor Mobilization	60
	113007010 - Construct Temp Buildings & Utilities	220
	113007100 - Intake 3 Build Site Construction Roads	29
	Phase 1 Sitework	1121
	113305100 - Int 3 Ph1Site Clear & Grub	39
	113305210 - Int 3 Ph 1 DMM Soil Improvement	111
	113305220 - Int 3 Ph 1 DMM Cut-off Trench	48
	113305230 - Int 3 Ph 1 DMM Subcontract Mobe & Demobe	49
	113305300 - Int 3 Ph 1 Excavate Key Trenches	5
	113305410 - Int 3 Ph 1 Highway Temporary Fill from Reqd Exc	115
	113305430 - Int 3 Ph1 Moisture Condition Suitable Soil	120
	113305510 - Int 3 Ph1 Place Dike Fill from Reqd Excavation	30
	113305520 - Int 3 Ph 1 Moisture Condition Suitable Soil	34
	113305600 - Int 3 Ph1 Dewater Excavation W Deep Wells	1121
	113305800 - Int 3 Ph 1 Temporary Plating	12



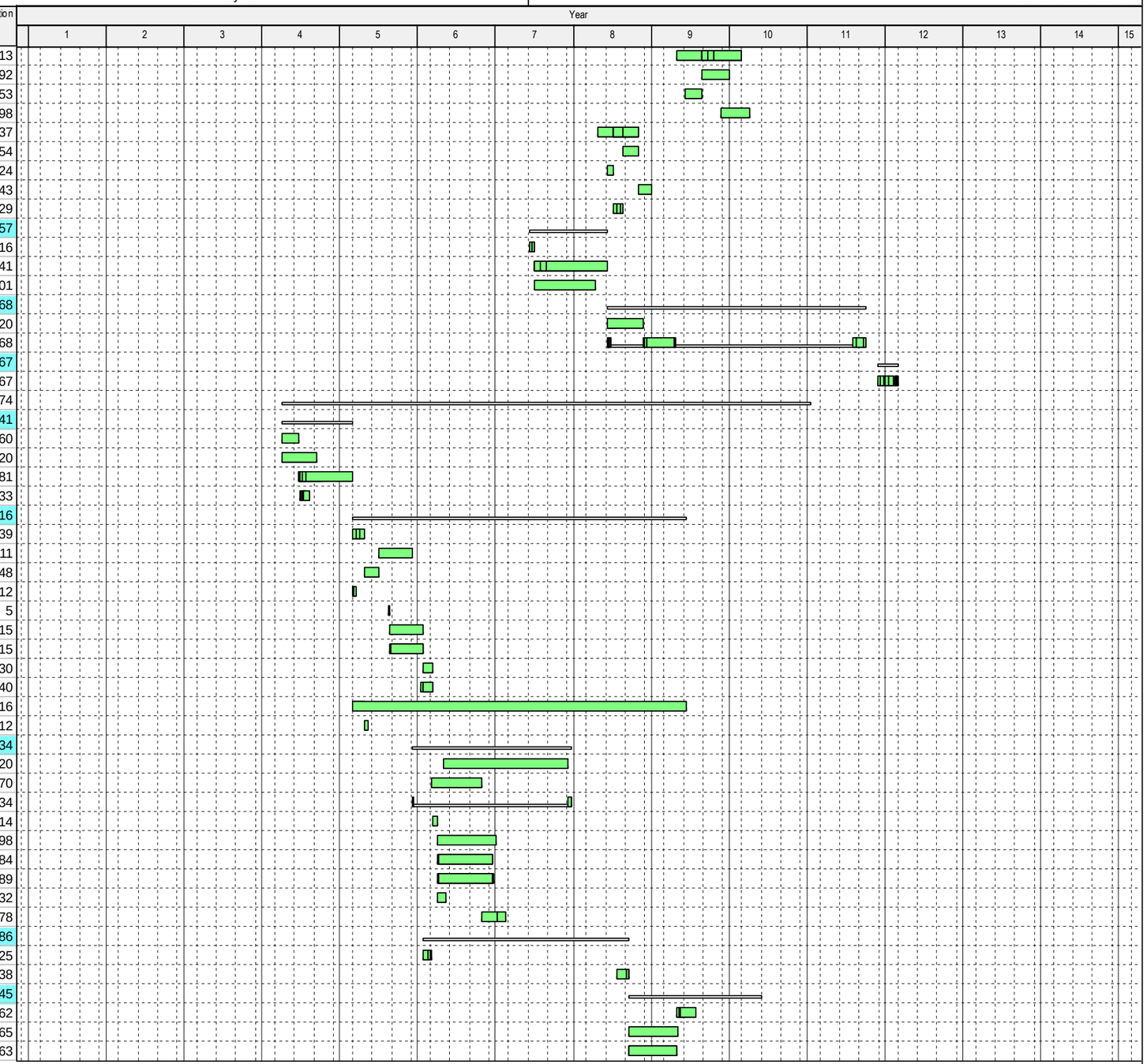
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	Phase 2 Sitework	470
113306210	Int 3 Ph 2 DMM Soil Improvement	420
113306220	Int 3 Ph 2 DMM Cut-off Trench	170
113306230	Int 3 Ph 2 DMM Subcontract Mobe & Demobe	10
113306300	Int 3 Ph 2 Excavate Key Trenches	14
113306510	Int 3 Ph 2 Fills from Required Excavation	198
113306520	Int 3 Ph 2 Fills From Borrow	42
113306530	Int 3 Ph 2 Moisture Condition Suitable Soil	205
113306700	Int 3 Ph 2 Temporary Plating	24
113322300	H Piles in DMM Wall	83
	Roads	721
113305900	Intake 3 Pave Temporary Highway 160	25
113306800	Int 3 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	636
113309120	Int 3 Ph 3 Embankment Fill from Site Excavation	165
113309130	Int 3 Ph 3 Moisture Condition Soil	163
113309140	Int 3 Ph3 Excavate Unsuitable to Spoil	112
113309150	Int 3 Ph3 Final Grade and Invert Rock	191
113309160	Int 3 Ph3 Final Grade and Road Plating	57
113309200	Int 3 Ph 3 Dredge Pipe From Basin To Lagoons	25
113309320	Intake 3 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
113309330	Intake 3 Ph 3 Sed Drying Lagoons Underdrains	23
113309340	Intake 3 Ph 3 Sed Drying Lagoons Roller Compact	41
113309400	Intake 3 Hypalon Curtain	24
113309500	Intake 3 Final Utilities, Paving, Fence, S	82
113309600	Intake 3 Office & Vehicle Storage	57
113309700	Intake 3 Fueling Station	15
113309800	Intake 3 Substation & Elect Distribution	112
113309900	Intake 3 Drop Gate/Stoplog Storage Enclosure	32
	Cofferdams	852
113307100	Intake 3 HZ975D-14/AZ18 Front Combi Wall Coffer	561
113307200	Intake3 Fender System	12
113307300	Intake 3 PZC26 Back Wall Cofferdam	852
113307400	Dredging in front of Cofferdam	15
	Intake Structure	606
113313000	Intake 3 Excavate Inside Intake Coffertam	72
113315100	Mobilize Drill Spread	162
113315210	Drill & Case Pier Shafts	150
113315220	Reinforcing Steel	141
113315230	Place Fill Concrete	50
113317000	Intake 3 Tremie Concrete Under Intake Structure	55
113319000	Intake 3 Dewater Intake C'dam & Place Xbra	322
113321100	Intake 3 Place Concrete	240
113321200	Furnish And Place Rebar	200
113321300	Intake 3 Concrete Fill (flowable concrete)	32
	Intake MEP	803
113323000	Intake 3 8'x8' Roller Gates, Guides & Opera	104
113324000	Intake 3 8'x8' Stoplog Gates, Guides	94
113324500	Intake 3 Box Culvert Stoplogs and Guides	60
113325000	Intake 3 Fish Screens, Panels, & Cleaning	215
113327000	Intake 3 MEP	291
113329000	Intake 3 Finish Out	588
	Box Culverts	510



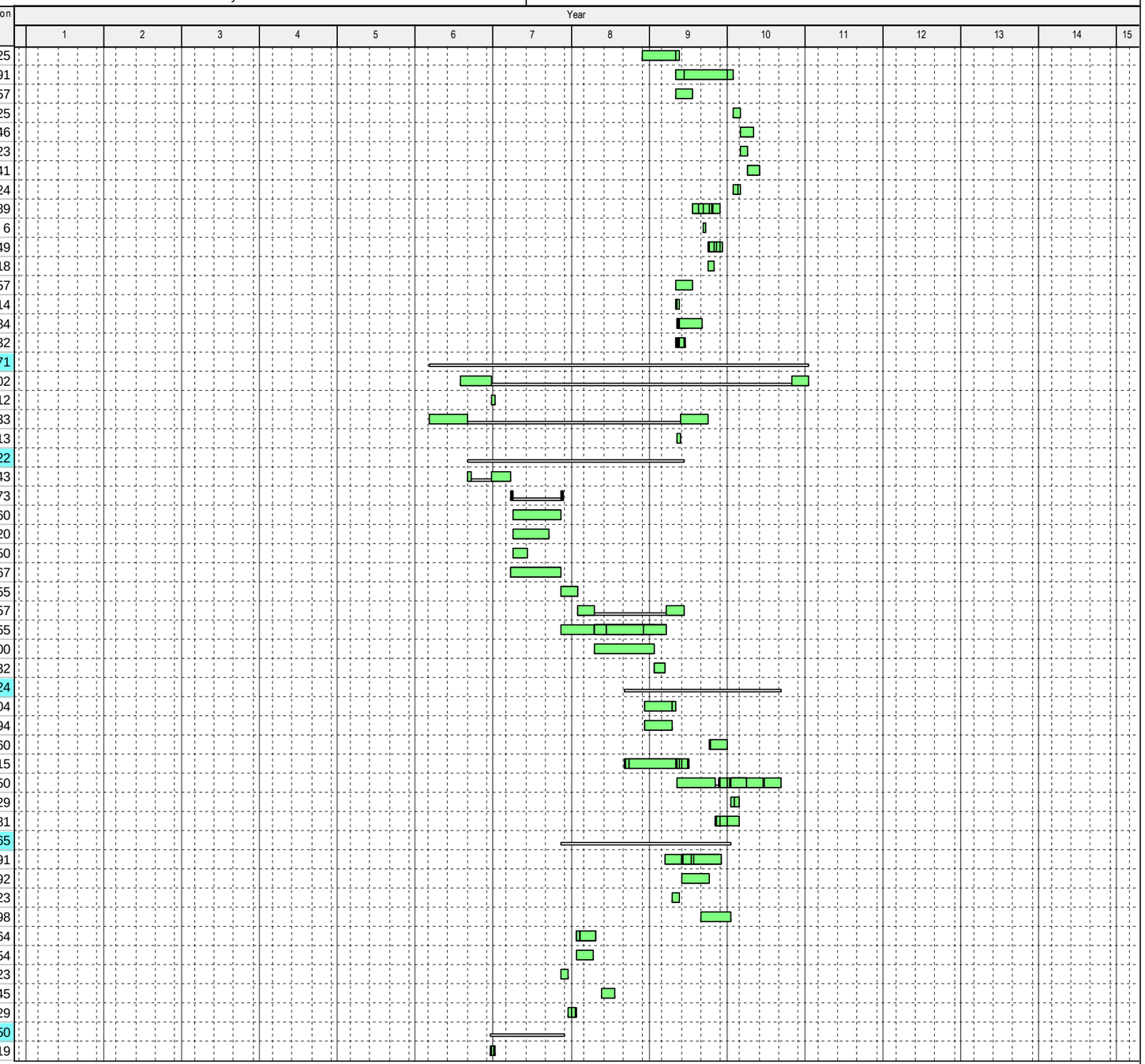
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113322100	Place Box Concrete 1st 170 ft	213
113322200	Furnish And Place Box Rebar 1st 170 ft	92
113322300	Excavate for Box 1st 170 ft	53
113322400	Backfill for Box 1st 170 ft	98
113322500	Place Box Concrete Gate Shaft & Outlet	137
113322600	Place Box Rebar Gate Shaft & Outlet	54
113322700	Excavate for Box Gate Shaft & Outlet	24
113322800	Backfill over Box Gate Shaft & Outlet	43
113322900	24" Foundation Piles under Gate Structures	29
	Sedimentation Basins	257
113355000	Intake 3 Sediment Basin Drive Piles	16
113357100	Place Concrete	241
113357200	Furnish And Place Rebar	201
	Sedimentation Basins MEP	868
113359000	Intake 3 Sediment Basin Radian Gates & Stoplogs	120
113361000	Intake 3 Sediment Basin MEP & Finish Work	868
	Site Restoration	67
	Intake No. 3 - Site Restoration	67
	IN INTAKE 5	1774
	Mobilization & Operations	241
115003000	Intake 5 Contractor Mobilization	60
115005060	Intake 5 Personnel Mobe Expense	120
115007010	Construct Temporary Buildings & Utilities	181
115007100	Intake 5 Build Site Construction Roads	33
	Phase 1 Sitework	1116
115205100	Int 5 Ph1 Clear and Grub	39
115205210	Int 5 Ph 1 DMM Soil Improvement	111
115205220	Int 5 Ph 1 DMM Cut-off Trench	48
115205230	Int 5 Ph 1 DMM Subcontract Mobe & Demobe	12
115205300	Int 5 Ph 1 Excavate Key Trenches	5
115205410	Int 5 Ph 1 Highway Temporary Fill from Reqd Exc	115
115205430	Int 5 Ph1 Moisture Condition Suitable Soil	115
115205510	Int 5 Ph1 Place Dike Fill from Reqd Excavation	30
115205520	Int 5 Ph 1 Moisture Condition Suitable Soil	40
115205600	Int 5 Ph 1 Dewater Excavation with Deep Wells	1116
115205800	Int 5 Ph 1 Temporary Plating	12
	Phase 2 Sitework	534
115206210	Int 5 Ph 2 DMM Soil Improvement	420
115206220	Int 5 Ph 2 DMM Cut-off Trench	170
115206230	Int 5 Ph 2 DMM Subcontract Mobe & Demobe	534
115206300	Int 5 Ph 2 Excavate Key Trenches	14
115206510	Int 5 Ph 2 Fills from Required Excavation	198
115206530	Int 5 Ph 2 Moisture Condition Suitable Soil	184
115206540	Int 5 Ph 2 Place Dike Core Fill from Borrow	189
115206700	Int 5 Ph 2 Place Temporary Gravel Plating	32
115222300	H Piles in DMM Wall	78
	Roads	686
115205900	Int 5 Ph 2 Pave Temporary Highway 160	25
115206800	Int 5 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	445
113309600	Intake 3 Office & Vehicle Storage	62
115209120	Int 5 Ph 3 Embankment Fill from Site Excavation	165
115209130	Int 5 Ph 3 Moisture Condition Soil	163



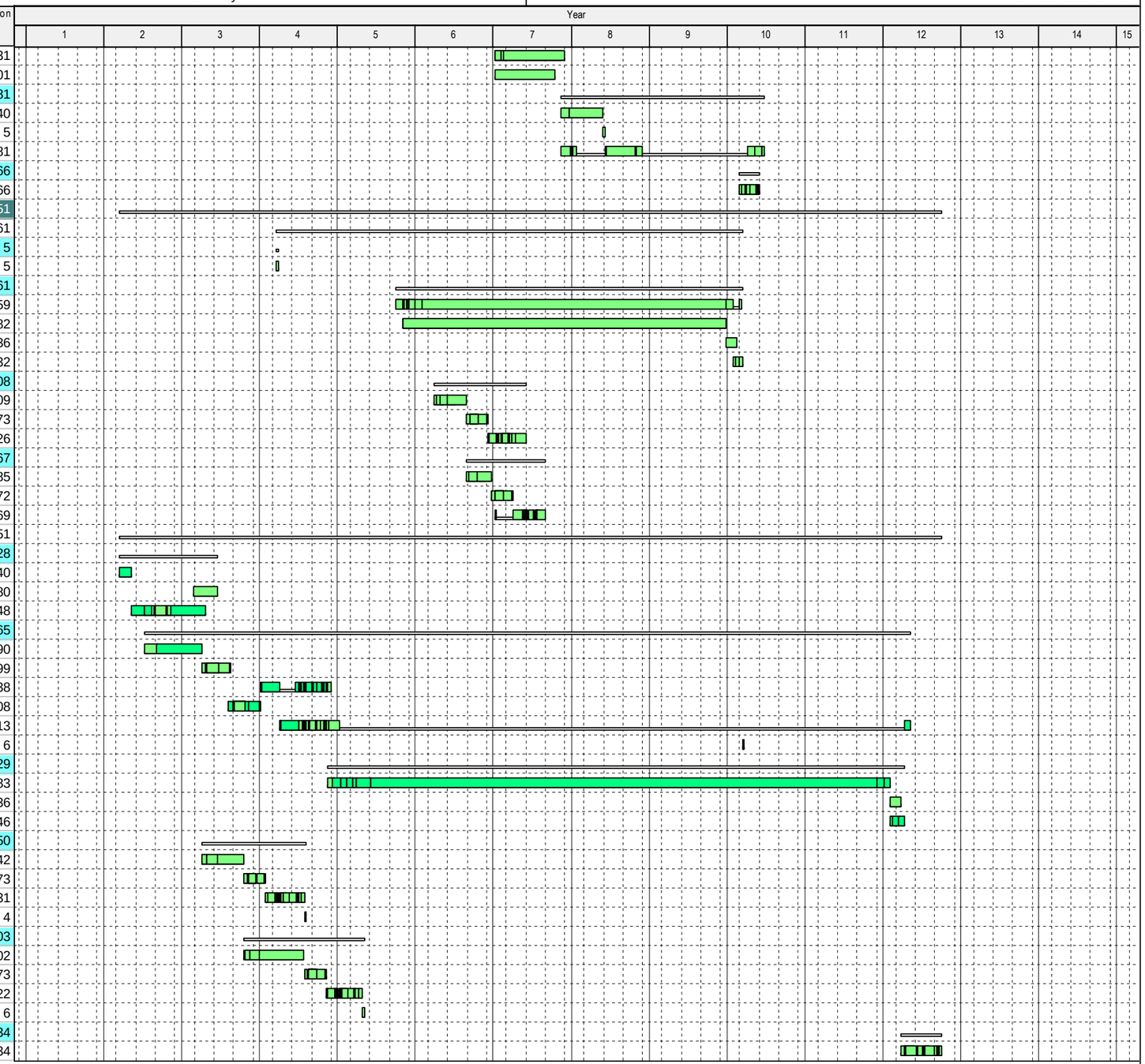
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
115209140	Int 5 Ph3 Excavate Unsuitable to Spoil	125
115209150	Int 5 Ph3 Final Grade and Invert Rock	191
115209160	Int 5 Ph3 Place Area Pllating	57
115209200	Int 5 Ph 3 Dredge Pipe From Basin To Lagoons	25
115209310	Int 5 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
115209320	Int 5 Ph 3 Sed Drying Lagoons Underdrains	23
115209330	Int 5 Ph 3 Sed Drying Lagoons Roller Compact	41
115209400	Int 5 Ph 3 Hypalon Curtain	24
115209500	Int 5 Ph3 Final Utilities, Paving, Fence, S	89
115209610	Place Gravel Foundation Bedding	6
115209620	Place Concrete Slab	49
115209630	Furnish And Place Rebar	18
115209640	Building Construction And Equipment	57
115209700	Fueling Station	14
115209800	Intake 5 Substation & Electrical Distribution	84
115209900	Intake 5 Drop Gate/Stoplog Storage Enclosure	32
Cofferdams		1271
115207100	Intake 5 HZ975D-14/AZ18 Front Combi Wall Coffer	802
115207200	Intake5 Fender System	12
115207300	Intake 5 PZC26 Back Wall Cofferdam	933
115207400	Dredge in front of Cofferdam	13
Intake Structural		722
115213000	Intake 5 Excavate Inside Intake Coffertam	143
115215100	Mobilize & Demobilize Drill Spread	173
115215210	Drill & Case As Reqd Pier Shafts	160
115215220	Reinforcing Steel	120
115215230	Concrete	50
115215240	Pier Shaft Contractor Profit, G&A, & Conti	167
115217000	Intake 5 Tremie Concrete Under Intake Stru	55
115219000	Intake 5 Dewater Intake C'dam & Place Xbra	357
115221100	Intake 5 Place Concrete	355
115221200	Furnish and Place Rebar	200
115221300	Intake 5 Place Fill Concrete (flowable concrete)	32
Intake MEP		524
115223000	Intake 5 8'x8' Roller Gates, Guides & Opera	104
115224000	Intake 5 8'x8' Stoplog Gates, Guides	94
115224500	Intake 5 Box Culvert Stoplogs and Guides	60
115225000	Intake 5 Fish Screens, Panels, & Cleaning	215
115227100	Intake 5 MEP	350
115227600	Intake 5 Gantry Cranes & Rail	29
115229000	Intake 5 Finish Out	81
Box Culverts		565
115222100	Place Box Concrete 1st 170 ft	191
115222200	Furnish And Place Box Rebar 1st 170 ft	92
115222300	Excavate for Box 1st 170 ft	23
115222400	Backfill for Box 1st 170 ft	98
115222500	Place Box Concrete Gate Shaft & Outlet	64
115222600	Place Box Rebar Gate Shaft & Outlet	54
115222700	Excavate for Box Gate Shaft & Outlet	23
115222800	Backfill over Box Gate Shaft & Outlet	45
115222900	24" Foundation Piles under Gate Structures	29
Sedimentation Basins		250
115255000	Intake 5 Sediment Basin Drive Piles	19



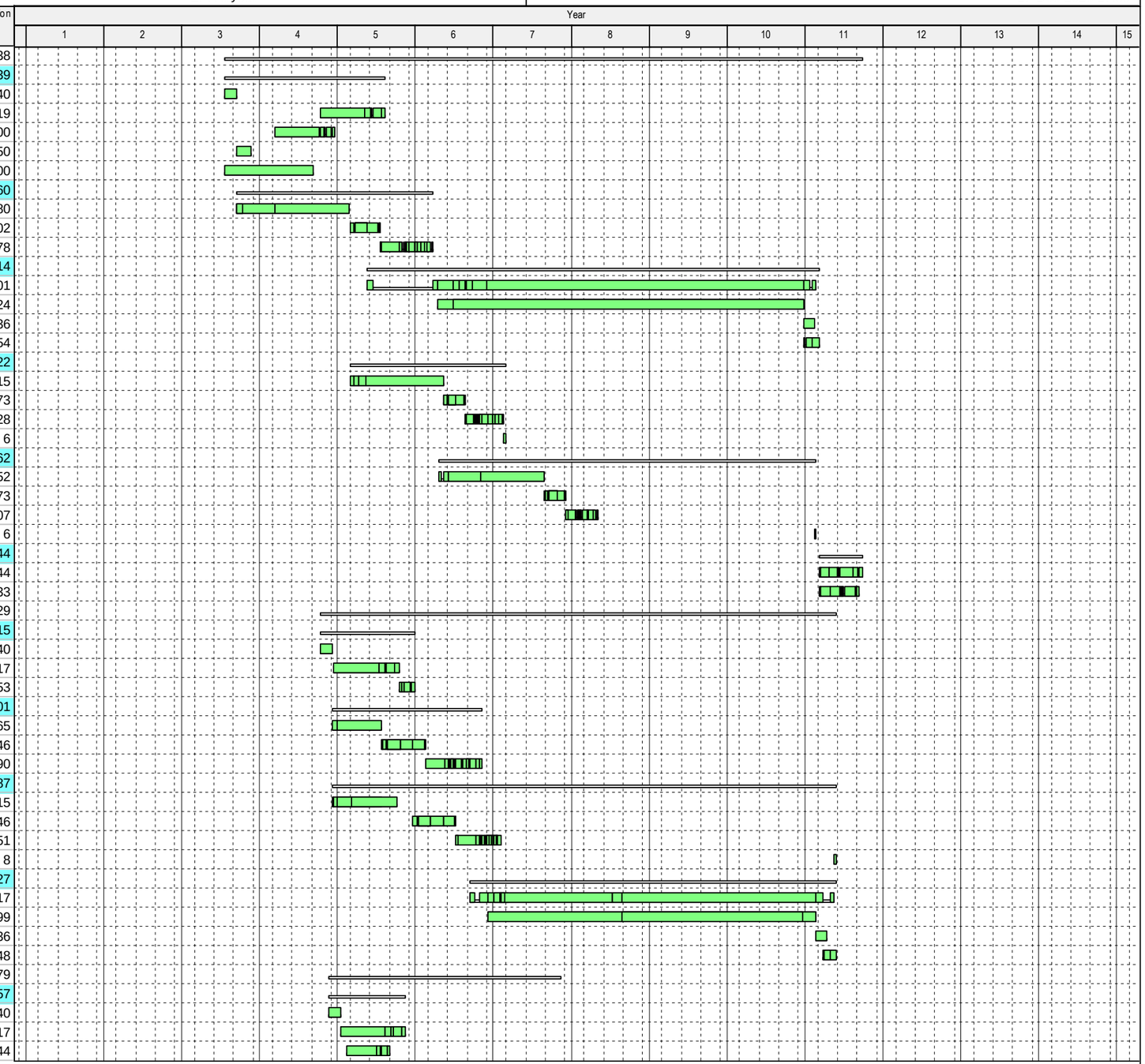
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	115257100 - Place Concrete	231
	115257200 - Furnish And Place Rebar	201
	Sedimentation Basin MEP	681
	115259000 - Intake 5 Sediment Basin Radial Gates & Stoplogs	140
	115261000 - Intake 3 Sediment Basin MEP & Finish Work	5
	115261000 - Intake 5 Sediment Basin MEP & Finish Work	681
	Site Restoration	66
	Intake No. 5 - Site Restoration	66
	TUNNELS AND SHAFTS	2751
	REACH 1	1561
	MOBILIZATION & INDIRECTS	5
	21100425 - Reach 1 Mobilize & Setup Main Construction Site	5
	TUNNEL REACH 1	1161
	21300440 - Reach 1 Tunnel	1159
	21300440 - Reach 1 Tunnel Support	1082
	21300445 - Reach 1 Remove TBM	36
	21300460 - Reach 1 Remove Tunnel Utilities & Cleanup	32
	INTERMEDIATE SHAFT INTAKE 5 REACH 1	308
	216005 - Reach 1 Work Area for Pass through Shaft - Intake 5	109
	21600530 - Reach 1 D'Wall for Pass through Shaft - Intake 5	73
	21600535 - Reach 1 Excavate/build Pass through Shaft - Intake 5	126
	RECEPTION SHAFT INTAKE 3 REACH 1	267
	214005 - Reach 1 Work Area for Reception Shaft - Intake 3	85
	21400510 - Reach 1 D'Walls for Reception Shaft - Intake 3	72
	21400515 - Reach 1 Excavate/build Reception Shaft - Intake 3	169
	REACH 2	2751
	MOBILIZATION & INDIRECTS	328
	22100515 - Reach 2/1 Mobilize & Setup Site	40
	22200516 - Reach 2/1 Ring Levee around RTM	80
	22200522 - Reach 2 Work site area & segment pad	248
	DOUBLE LAUNCH SHAFT REACH 2/1	2565
	222005 - Reach 2/1 Work Area for Launch Shafts	190
	22200519 - Reach 2 D'Walls for Launch shaft	99
	22200520 - Reach 2 Excavate/build Launch Shaft	238
	22200525 - Reach 1 D'Wall for Launch shaft	108
	22200530 - Reach 1 Excavate/build Launch Shaft	2113
	22200531 - Reach 2/1 Launch Shaft Finishing	6
	TUNNEL REACH 2	1929
	22300530 - Reach 2 Tunnel	1883
	22300535 - Reach 2 Remove TBM	36
	22300550 - Reach 2 Remove Tunnel Utilities & Cleanup	46
	MAINTAINANCE SHAFT NEW HOPE TRACT	350
	225006 - Reach 2 Work Area for Maint Shaft - New Hope Tract	142
	22500610 - Reach 2 D'Walls for Maint Shaft - New Hope Tract	73
	22500615 - Reach 2 Excavate/build Maint Shaft - New Hope Tract	131
	22500616 - Reach 2 Maint Shaft Finishing - New Hope Tract	4
	MAINTAINANCE SHAFT STATEN ISLAND	403
	226006 - Reach 2 Work Area for Maint Shaft - Staten Island	202
	22600625 - Reach 2 D'Walls for Maint Shaft - Staten Island	73
	22600630 - Reach 2 Excavate/build Maint Shaft - Staten Island	122
	22600635 - Reach 2 Maint Shaft Finishing - Staten Island	6
	Site Restoration	134
	Glanville Tract - Launch Shaft Site Restoration	134



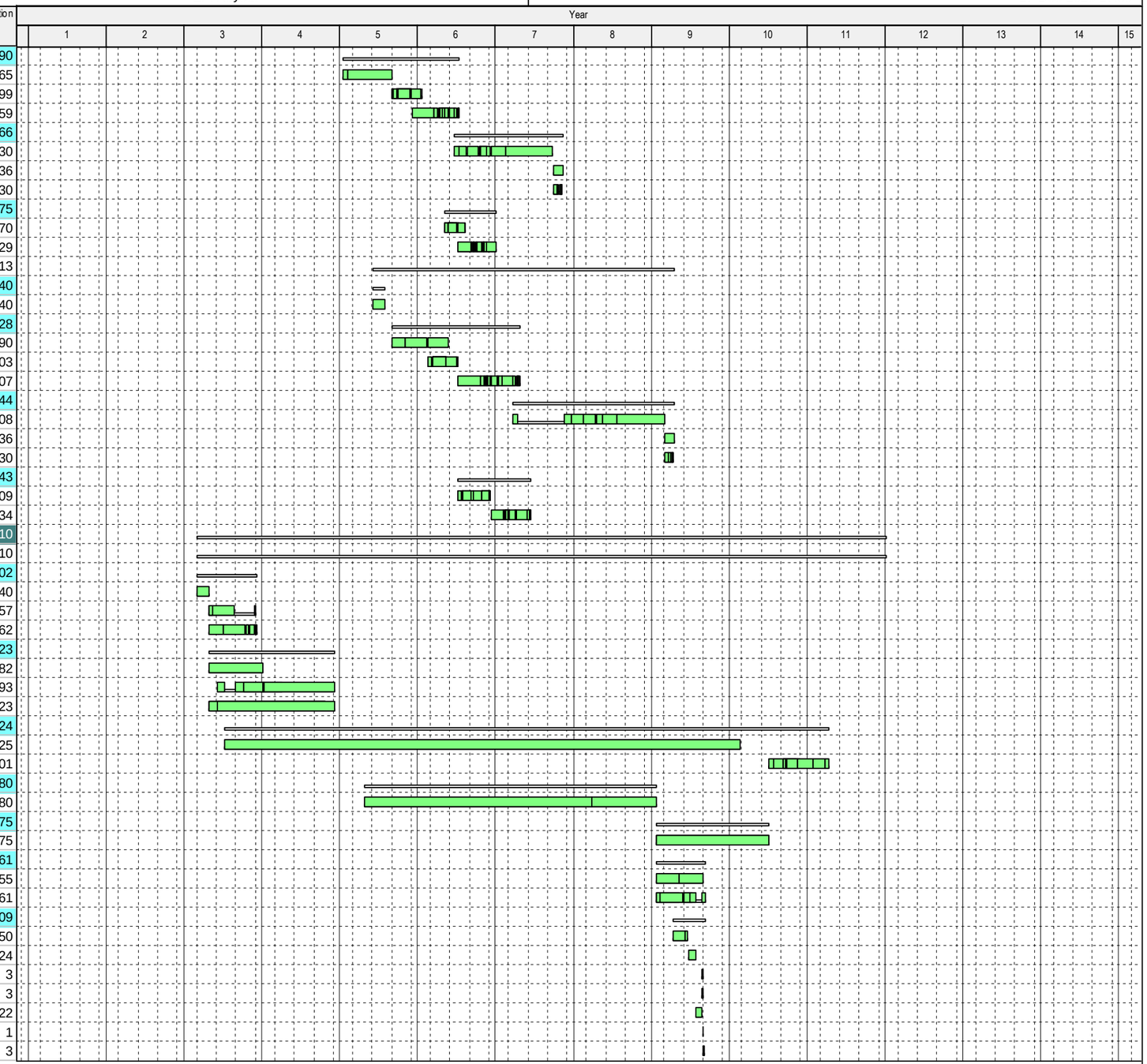
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	REACH 3	2138
	MOBILIZATION & INDIRECTS	539
	23100005 - Reach 3 Mobilize & Setup Main Site	40
	23100006 - Reach 3 Work site RTM Area preparation	219
	23100006 - Reach 3 Work site segment pad	200
	23100007 - Reach 3 Work site Levee improvements	50
	23300050 - Reach 3 Tunnel Plant & Equipment	300
	LAUNCH SHAFT REACH 3 BOULDINISLAND	660
	232000 - Reach 3 Work Area for Launch Shaft - Bouldin Island	380
	23200009 - Reach 3 D'Walls for Launch Shaft - Bouldin Island	102
	23200010 - Reach 3 Excavate/build Launch Shaft - Bouldin Island	178
	TUNNEL REACH 3	1514
	23300020 - Reach 3 Tunnel	1501
	23300020 - Reach 3 Tunnel Support	1224
	23300025 - Reach 3 Remove TBM	36
	23300040 - Reach 3 Remove Tunnel Utilities & Cleanup	54
	MAINTAINANCE SHAFT MANDEVILLE ISLAND	522
	235000 - Reach 3 Work Area for Maint shaft - Mandeville island	315
	23500096 - Reach 3 D'Wall for Maint Shaft - Mandeville Island	73
	23500097 - Reach 3 Excavate/build Maint Shaft - Mandeville Island	128
	23500098 - Reach 3 Shaft Finishing - Mandeville Island	6
	RECEPTION SHAFT BACON ISLAND	1262
	234000 - Reach 3(4) Work Area for Reception Shaft - Bacon Island	352
	23400014 - Reach 3(4) D'Wall for Reception Shaft - Bacon Island	73
	23400015 - Reach 3 (4) excavate/build reception Shaft - Bacon Island	107
	23400016 - Reach 3(4) Reception Shaft Finishing - Bacon Island	6
	Site Restoration	144
	Bouldin Island - Launch Shaft Site Restoration	144
	Lower Roberts Island - Launch Shaft Site Restore	133
	REACH 4	1729
	MOBILIZATION & INDIRECTS	315
	24100115 - Reach 4 Mobilize & Setup Site - SF North	40
	24100116 - Reach 4 RTM site preperation - SF North	217
	24200186 - Reach 4 Work Area Segment pad - SF North	53
	LAUNCH SHAFT SF NORTH	501
	242001 - Reach 4 Work Area for Launch Shaft - South Forebay	165
	24200119 - Reach 4 D'walls for Launch Shaft - South Forebay	146
	24200120 - Reach 4 Excavate/build Launch Shaft - South Forebay	190
	WORK SHAFT BYRON TRACT	1687
	242001 - Reach 4 Work Area for Work Shaft - Byron Tract	215
	24200187 - Reach 4 D'Wall for Work Shaft - Byron Tract	146
	24200189 - Reach 4 Excavate/build Work Shaft - Byron Tract	151
	24210100 - Reach 4 Work Shaft Finishing - Byron Tract	8
	TUNNEL REACH 4	1227
	24300125 - Reach 4 Tunnel	1217
	24300125 - Reach 4 Tunnel Support	1099
	24300130 - Reach 4 Remove TBM	36
	24300145 - Reach 4 Remove Tunnel Utilities & Cleanup	48
	REACH 5E	779
	MOBILIZATION & INDIRECTS	257
	25100630 - Reach 5 Mobilize & Setup Site	40
	25100631 - Reach 5 RTM site preperation	217
	25200635 - Reach 5 Work Area Segment pad	144



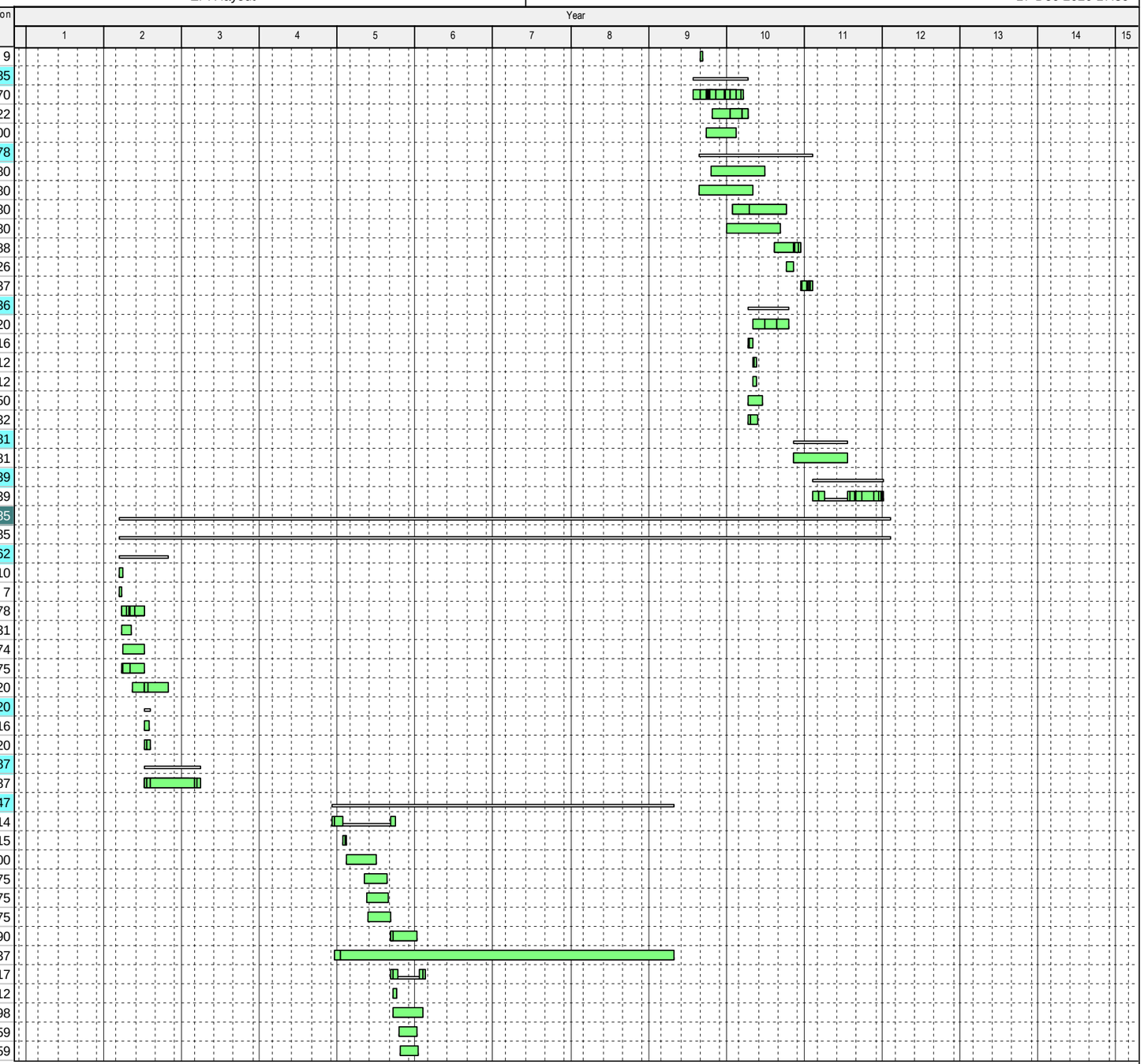
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	LAUNCH SHAFT REACH 5E	390
25200635	Reach 5E Launch Shaft Work Area	165
25200640	Reach 5E D'Wall for Launch Shaft	99
25200645	Reach 5E Excavate/build Launch Shaft	159
	TUNNEL REACH 5E	366
25300660	Reach 5E Tunnel	330
25300665	Reach 5E Remove TBM	36
25300680	Reach 5E Remove Tunnel Utilities & Cleanup	30
	RECEPTION SHAFT REACH 5E	175
25400650	Reach 5E D'Wall Reception Shaft	70
25400651	Reach 5E Excavate/build Reception Shaft	129
	REACH 5W	1013
	MOBILIZATION & INDIRECTS	40
26100730	Reach 5W Mobilize & Setup Site	40
	LAUNCH SHAFT REACH 5W	428
26200735	Reach 5W Launch Shaft Work Area	190
26200740	Reach 5W D'Wall for Launch Shaft	103
26200745	Reach 5W Excavate/build Launch Shaft	207
	TUNNEL REACH 5W	544
26300760	Reach 5W Tunnel	508
26300765	Reach 5W Remove TBM	36
26300780	Reach 5W Remove Tunnel Utilities & Clean Up	30
	RECEPTION SHAFT REACH 5W	243
26400650	Reach 5W D'Wall for Reception Shaft	109
26400751	Reach 5W Excavate/build Reception Shaft	134
	FR FOREBAY	2310
	SOUTHERN FOREBAY	2310
	Mobilization & Overhead	202
331003000	S Forebay Contractor Mobilization	40
331005080	Job Site Plant	157
331005100	Site Prep Plant	162
	Foundations	423
332005000	Southern Forebay Clear & Grub/Demolition	182
332035100	Dewater Embankment Foundation	393
332035125	Foundation Excavation Pad Fill for S Forbay	423
	Material Handling	2024
332035200	Material Handling	1725
332035300	Rip Rap	201
	East Embankment	980
332035260	Preload East Embankment	980
	Final Embankment	375
332035200	Material Handling	375
	DMM Wall	161
332035159	DMM Walls	155
332050100	S Forebay Outlet Struct Sitework	161
	Piles	109
332050210	Provide Foundation Piles	50
332050220	Drive Steel Pipe Piles	24
332050240	Conc Placing Crew	3
332050250	Conc Plant & Ops	3
332050260	Rebar Cages	22
332050280	Conc Placing Crew	1
332050290	Conc Plant & Ops	3



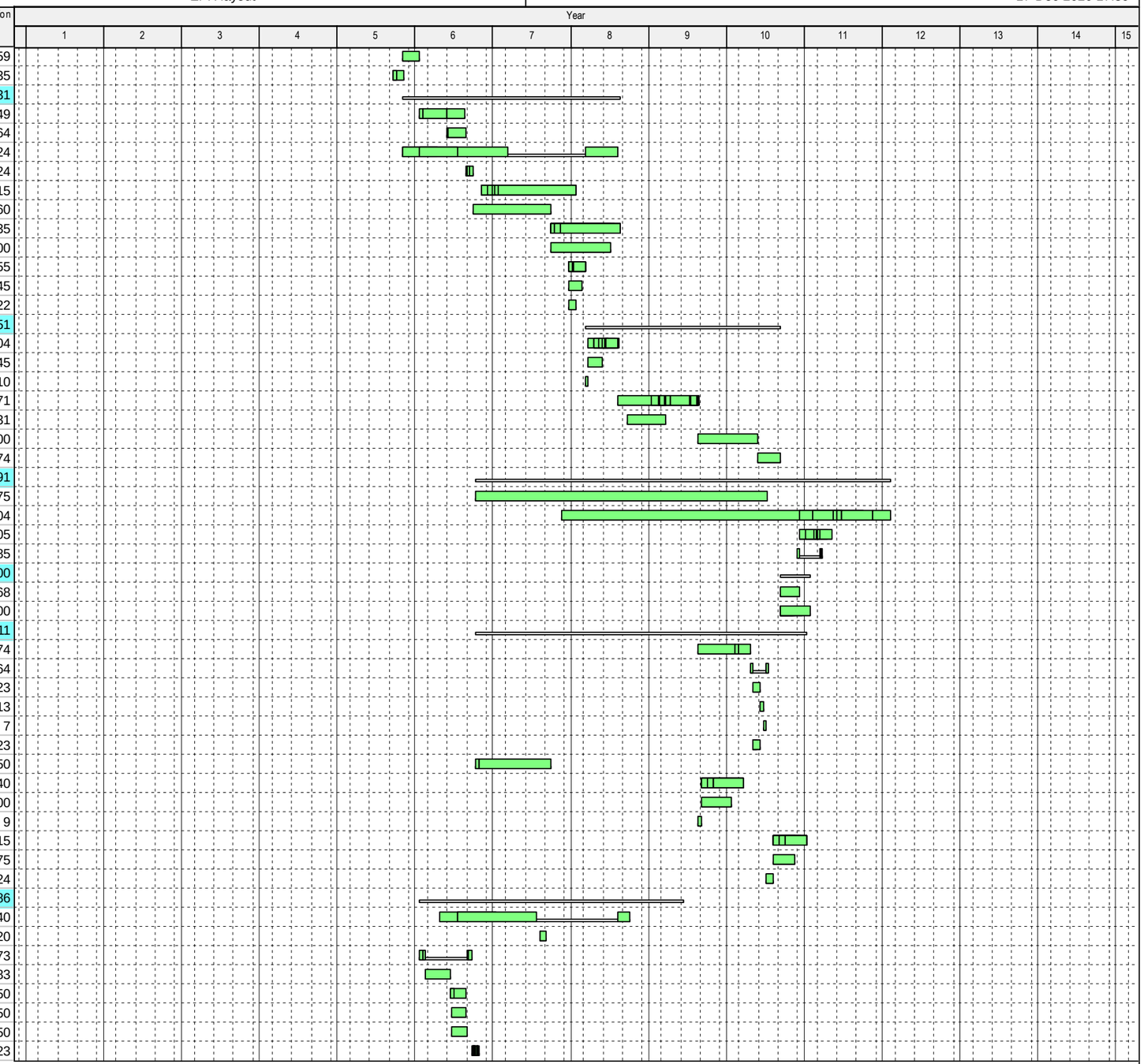
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
332050300	Cure & Cleanup	9
Spillway		185
333010000	New Spillway Earthwork	170
333020020	Concrete Work	122
333020030	Rebar	100
Outlet Structure		378
333005010	S Forebay Outlet Slab Concrete	180
333005020	S Forebay Outlet Slab Rebar	180
333005030	S Forebay Outlet Wall Concrete	180
333005040	S Forebay Outlet Wall Rebar	180
333005050	S Forebay Outlet Roof Concrete	88
333005060	S Forebay Outlet Roof Rebar	26
333005061	SF Outlet Struct Conc, Matt	37
Gates & MEP		136
333005080	S Forebay Inlet Drop Gates	120
333005090	S Forebay Inlet Gantry Crane	16
333005100	S Forebay Inlet Trash Rack	12
333005120	Intermediate Forebay Inlet Misc. Metal	12
333005130	Intermediate Forebay Inlet Misc. Electrica	50
333005140	Intermediate Forebay Inlet Piping	32
Site Finishes		181
332050010	SFB Dike Hydroseed & Fencing	181
Site Restoration		239
Southern Forebay Site Restoration		239
PP PUMPING PLANT		2585
PUMPING PLANTS		2585
Mobilization & Overhead		162
441003000	Mobilize Pump Plant Contractor	10
441009010	Place Foundation Gavel Bedding	7
441009020	Place Foundation Concrete	78
441009030	Furnish And Place Rebar	31
441009040	Contractors Office	74
441009050	Shops & Warehouse	75
441009060	Other Structures	120
Sitework		20
442005020	Clear & Grub/Demolition BT Area	16
442005100	Temporary Plating	20
Ground Improvements (DMM)		187
442020000	BT Pump Plant Ground Improvement(DMM)	187
BT Pump Plant Diaphragm Walls		1147
443005010	Slurry Wall Mobe and Demobe (Exterior Diaphram Walls)	214
443005040	Temporary Plating (Ext, Diaph. Walls)	15
443005050	Set Guide Walls (Ext. Diaph. Walls)	100
443005060	Excavate (Hydromill) Slurry Trench (Ext. Diaph. Walls)	75
443005070	Reinforcing Steel (Ext. Diaph. Walls)	75
443005080	Concrete (Ext. Diaph Walls)	75
443005090	Slurry Wall Contractor Overhead And Profit (Ext Diaph. Walls)	90
443005110	Deep Wells	1137
443010010	Slurry Wall Mobe & Demobe (Int. Diaph Walls)	117
443010040	Temporary Plating (Int. Diaph Walls)	12
443010050	Set Guide Walls (Int. Diaph Walls)	98
443010060	Excavate (Hydromill) Slurry Trench (Int. Diaph Walls)	59
443010070	Reinforcing Steel (Int. Diaph. Walls)	59



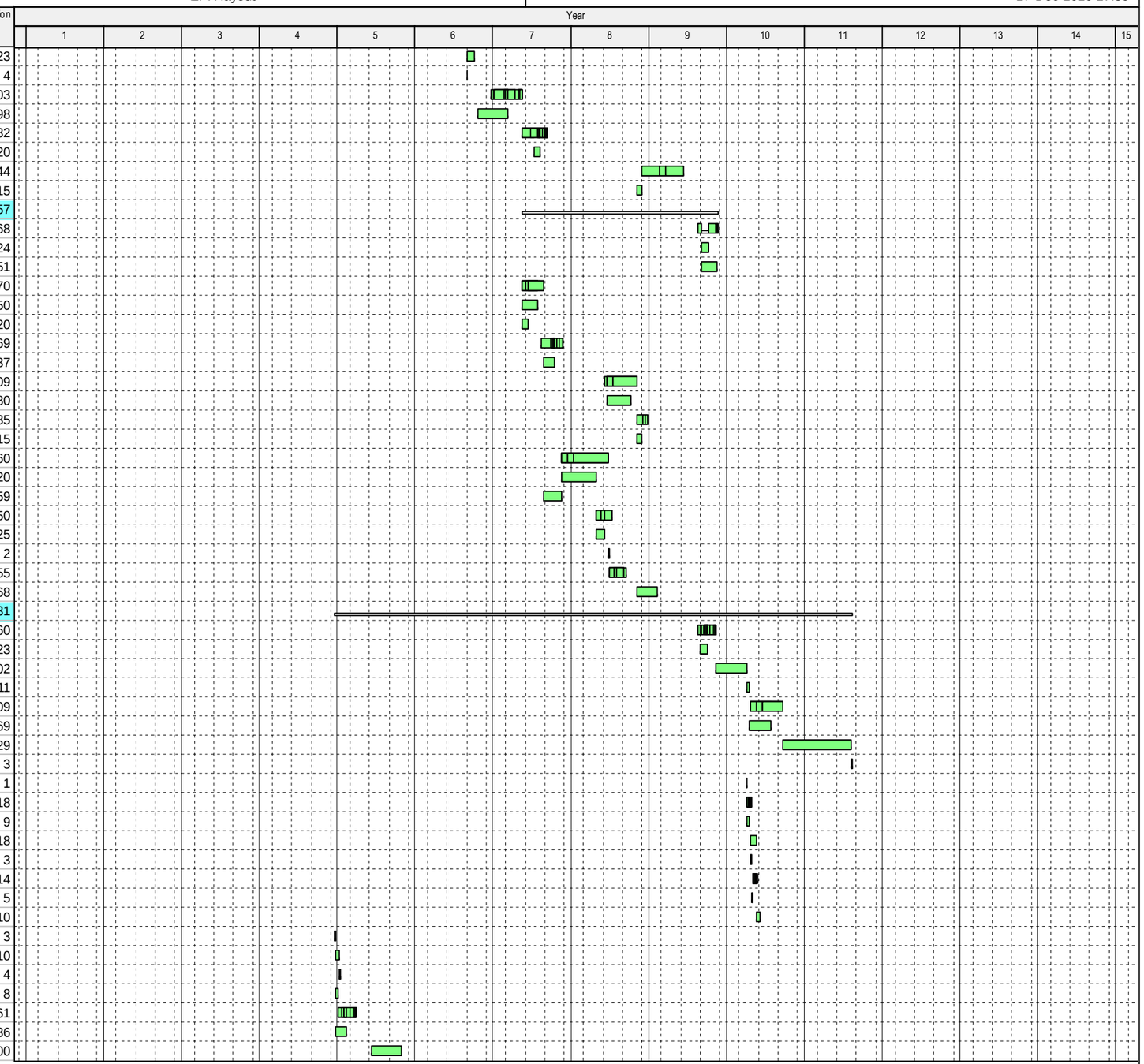
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
443010080	Concrete (Int. Diaph. Walls)	59
443010090	Slurry Wall Contractor Overhead And Profit (Ext. Diaph Walls)	35
	Pump Plant Foundation Slabs, Walls, Pump Can Concrete	731
442025000	BT Pump Plant Exc. Pump Inside Dia. Wall	149
442035000	BT Pump Plant Exc. Wet Well -84 to 28.0	64
442040000	Dewater & Install Bracing	724
443014999	BT Pump Plant Tremie Conc. Bottom Slab	24
443015010	Place Concrete (Pump Can Concrete)	315
443015020	Furnish And Place Rebar (Pump Can Concrete)	260
443020010	Place Concrete (Exterior Struc. Walls)	235
443020020	Furnish And Place Rebar (exterior Struc. Walls)	200
443025010	Place Concrete (Slab at El.-77.0)	55
443025020	Furnish And Place Rebar (Slab at El.-77.0)	45
443025030	Foundation Prep (Slab at El.-77.0)	22
	Pump Plant Operation Deck & Structure Above EL. 2950	651
443030010	Interior Walls to OP Deck Place Concrete	104
443030020	Interior Walls Furnish And Place Rebar	45
443030030	Interior Walls Foundation Prep	10
443035010	Operations Deck Place Concrete	271
443035020	Operations Deck Furnish And Place Rebar	131
443070000	PP Structure Above El. 2950	200
443080000	Pump Plant Roof Structure	74
	Structure Misc Metals & MEP	1391
443040000	Pump Plant Miscellaneous Metals	975
443045000	1123 cfs Pumps & Operators	1104
443050000	563 cfs Pumps & Operators	105
443051000	Wet Well Dewatering Pumps	85
	Pump Plant MEP	100
443075000	Pump Plant Overhead Crane	68
443085000	Pump Plant Structure Finish Out	100
	Dissipation Slab	1111
442050000	Pump Plant Exc. For Splash Basin	174
442055010	Mobilize & Demobe Drill Spread	64
442055030	Drill & Case As Reqd Pier Shafts	23
442055040	Reinforcing Steel - CDIH Piers	13
442055050	Concrete - CDIH Piers	7
442055060	Pier Shaft Contractor Profit, G&A, & Conti	23
443055000	Piping to Splash Basin	250
443060010	PP Pipe Encasement Place Concrete	140
443060020	PP Pipe Encasement Furnish And Place Rebar	100
443060030	PP Pipe Encasement Foundation Prep	9
443065010	Splash Pad Place Concrete	115
443065020	Splash Pad Furnish And Place Rebar	75
443065030	Splash Pad Foundation Prep	24
	Wet Well	886
442045000	Dewater & Install Bracing in Wet Well Section	640
442065000	Excavate WetWell Inlet Conduit	20
444005010	Wet Well Slurry Wall Mobe & Demobe	173
444005050	Wet Well Slurry Wall Set Guide Walls	83
444005060	Wet Well Excavate (Hydromill) Slurry Trench	50
444005070	Wet Well Reinforcing Steel	50
444005080	Wet Well Concrete	50
444010010	Wet Well Inlet Place Concrete (Bottom Slab)	23



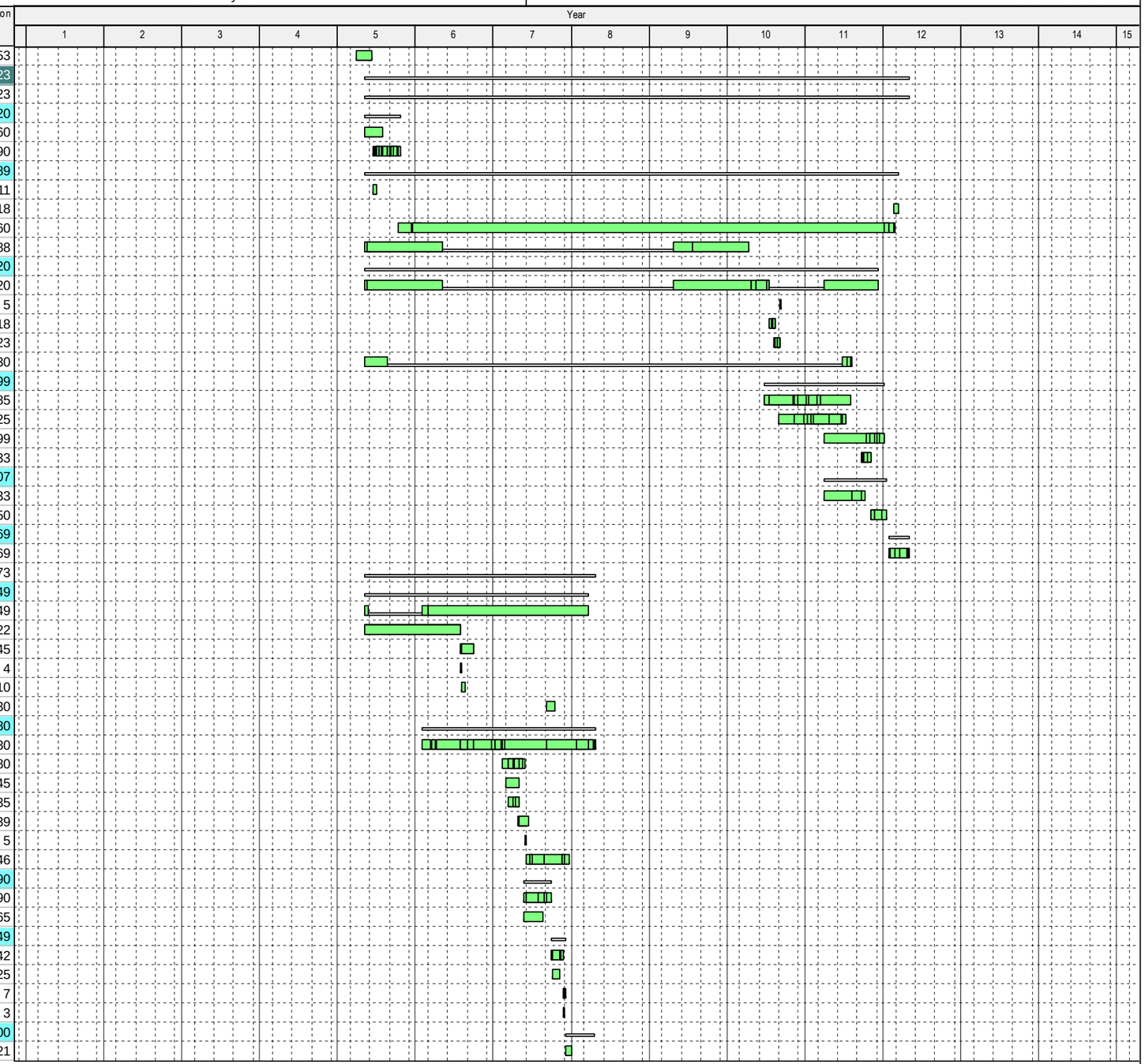
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
444010020	Wet Well Inlet Furnish And Place Rebar (Bottom Slab)	23
444010030	Wet Well Inlet Foundation Prep (Bottom Slab)	4
444015010	Wet Well Inlet Place Concrete (Walls)	103
444015020	Wet Well Inlet Furnish And Place Rebar (Walls)	98
444020010	Wet Well Inlet Top Deck Place Concrete	82
444020020	Wet Well Inlet Top Deck Furnish And Place Rebar	20
444025010	Wet Well Inlet Top Deck Double Isolation Roller Gates	144
444025020	Wet Well Inlet Top Deck Double Isolation Gantry Crane	15
	Outlet Structure	657
442070000	Gravity Flow Outlet Structure Sheet Pile for Exc.	68
442071000	Remove Top 105' of Interior Wall	24
442080000	Excavation for Gravity Flow Structure	51
444030010	Place Concrete (Bottom Slab)	70
444030020	Furnish And Place Rebar (Bottom Slab)	50
444030030	Foundation Prep (Bottom Slab)	20
444035010	Place Concrete (Walls)	69
444035020	Furnish And Place Rebar (Walls)	37
444040010	Place Concrete (Top Slab)	109
444040020	Furnish And Place Rebar (Top Slab)	80
444050010	Gravity Flow Roller Gates	35
444050020	Gravity Flow Gantry Crane	15
444055010	Gravity Flow Structure Place Concrete	160
444055020	Gravity Flow Strucutre Furnish And Place Rebar	120
444055030	Gravity Flow Structure Foundation Prep	59
444060010	PP Outlet Retaining Wall Concrete	50
444060020	PP Outlet Retaining Wall Rebar	25
444060030	PP Outlet Retaining Wall Concrete	2
444061010	Slab & Walls Between PP & Launch Shaft Wall Concrete	55
444065000	PP Gravity Outlet Flow Structure Overhead Crane	68
	Ancilarry Buildings & Structures	1731
443090010	PP MCC/Electrical Building Foundation Slab	60
443090020	PP MCC/Electrical Building Furnish And Place Rebar	23
443090030	PP MCC/Electrical Building Building Construction And Equipment	102
443095010	PP Storage Area & Yard Place Foundation Gavel Bedding	11
443095020	PP Storage Area & Yard Place Foundation Slab Concrete	109
443095030	PP Storage Area & Yard Furnish And Place Rebar	69
443095040	PP Storage Area & Yard Building Construction And Equipment	229
443100020	PP Storage Area & Yard Place Gavel Bedding	3
443105010	Generator Building Place Foundation Gravel Bedding	1
443105020	Generator Building Place Foundation Concrete	18
443105030	Generator Building Furnish And Place Rebar	9
443105040	Generator Building Construction And Equipment	18
443106010	HVAC Yard Place Foundation Gravel Bedding	3
443106020	HVAC Yard Place Foundation Concrete	14
443106030	HVAC Yard Furnish And Place Rebar	5
443106040	HVAC Yard Equipment Install	10
443110010	Substation Excavate/Grade Foundation Slab	3
443110020	Substation Provide Foundation Piles (50 LF)	10
443110030	Substation Drive Foundation Piles	4
443110040	Substation Place Gavel Bedding	8
443110050	Substation Place Concrete	61
443110060	Substation Furnish And Place Rebar	36
443110070	Substation Erect Substation & Transformers	100



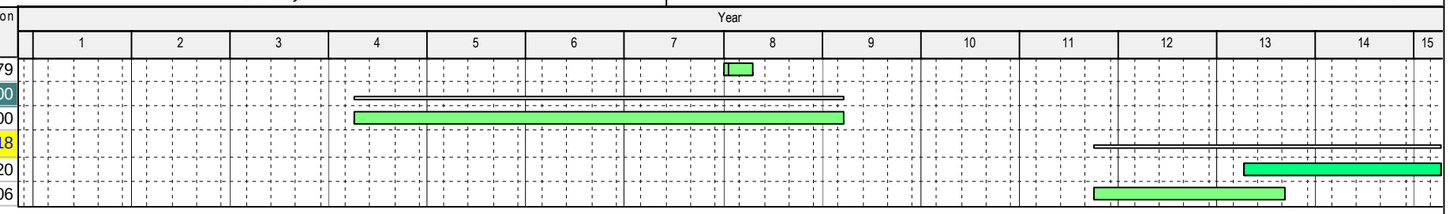
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	443110080 - Substation & Electrical Distribution	53
	SOUTH DELTA CONNECTIONS	1823
	BANKS OUTLET STRUCTURE	1823
	Mobilization & Overhead	120
	551020000 - Mobilization	60
	551050 - Temporary Facilities	90
	Tunnel Outlet	1789
	552005 - Clearing & Grubbing Banks Outlet Struct Area	11
	552008 - Site Fencing	18
	552505 - Banks Tunnel Outlet Structure Dewatering	1660
	553005 - Outlet Structure Earthwork	1288
	Outlet Structure	1720
	553005 - Outlet Structure Earthwork	1720
	553015 - Stilling Well Backfill	5
	553015 - Stilling Well Slab	18
	553015 - Stilling Well Walls	23
	553030 - Sheetpiles	1630
	Slab & Weir	399
	553015 - Banks Tunnel Outlet Structure Slab Concrete	285
	553015 - Banks Tunnel Outlet Walls & Pier Concrete	225
	5530151 - BTO Bridge Slab Concrete	199
	5530157 - BTO CS Weir Concrete	33
	Gates & MEP	207
	553020 - Banks Tunnel Outlet Structure Gates & Stop Logs	133
	553025 - Banks Tunnel Outlet Structure MEP	50
	Site Restoration	69
	S. Delta Outlet/CA Aque Cont. Str.-Restoration	69
	CALIFORNIA AQUIDUCT CONTROL STRUCTURE	773
	Earthworks	749
	55303001 - Dewater Canal Structure	749
	55303003 - Excavate Diversion Channel	322
	55303004 - Push/Pile Excavation On Outside Of Channel	45
	55303005 - Scarify & Recompact Canal Invert	4
	55303006 - Finish & Compact	10
	55303007 - Backfill	30
	Slab	580
	5530350 - Calif. Aqueduct Control Structure Earthworks	580
	553040010 - California Aqueduct CS Slab Concrete	80
	553040020 - California Aqueduct CS Slab Rebar	45
	553040021 - California Aqueduct CS CS Stilling Wells Slab	35
	553040021 - California Aqueduct CS CS Stilling Wells Walls	39
	553040024 - California Aqueduct CS CS Stilling Wells Backfill	5
	553045000 - Articulated Paving Blocks	146
	Walls	90
	553040030 - Californiua Aqueduct CS Wall Concrete	90
	553040040 - California Aqueduct CS Wall Rebar	65
	Weir & Bridge	49
	553040050 - California Aqueduct CS Bridge Slab Concrete	42
	553040060 - California Aqueduct CS Bridge Slab Rebar	25
	553040070 - California Aqueduct CS Weir Concrete	7
	553040080 - California Aqueduct CS Weir Rebar	3
	Gates & MEP	100
	553040090 - California Aqueduct CS Misc. Metal	21



TASK filter: summary schedule.

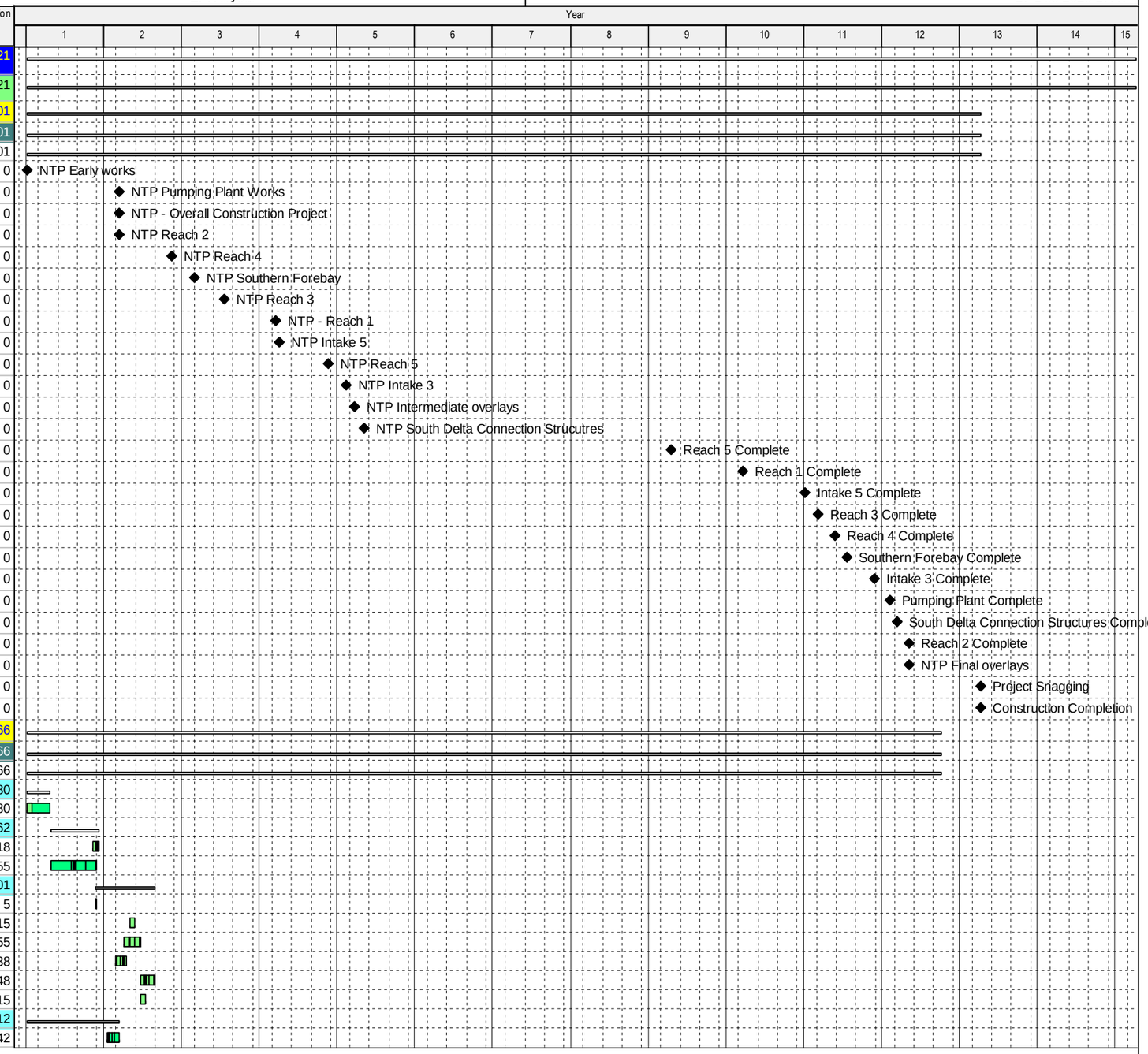
Activity ID	Activity Name	Original Duration
553040100 - California Aqueduct CS Gates & Stoplogs		79
MISC ADDITIONAL CONSTRUCTION ACTIVITIES		1300
Allowance		1300
CM COMMUNICATION & CONTROL / COMMISSIONING		918
Commissioning		520
Communicatrion & Control		506



TASK filter: summary schedule.

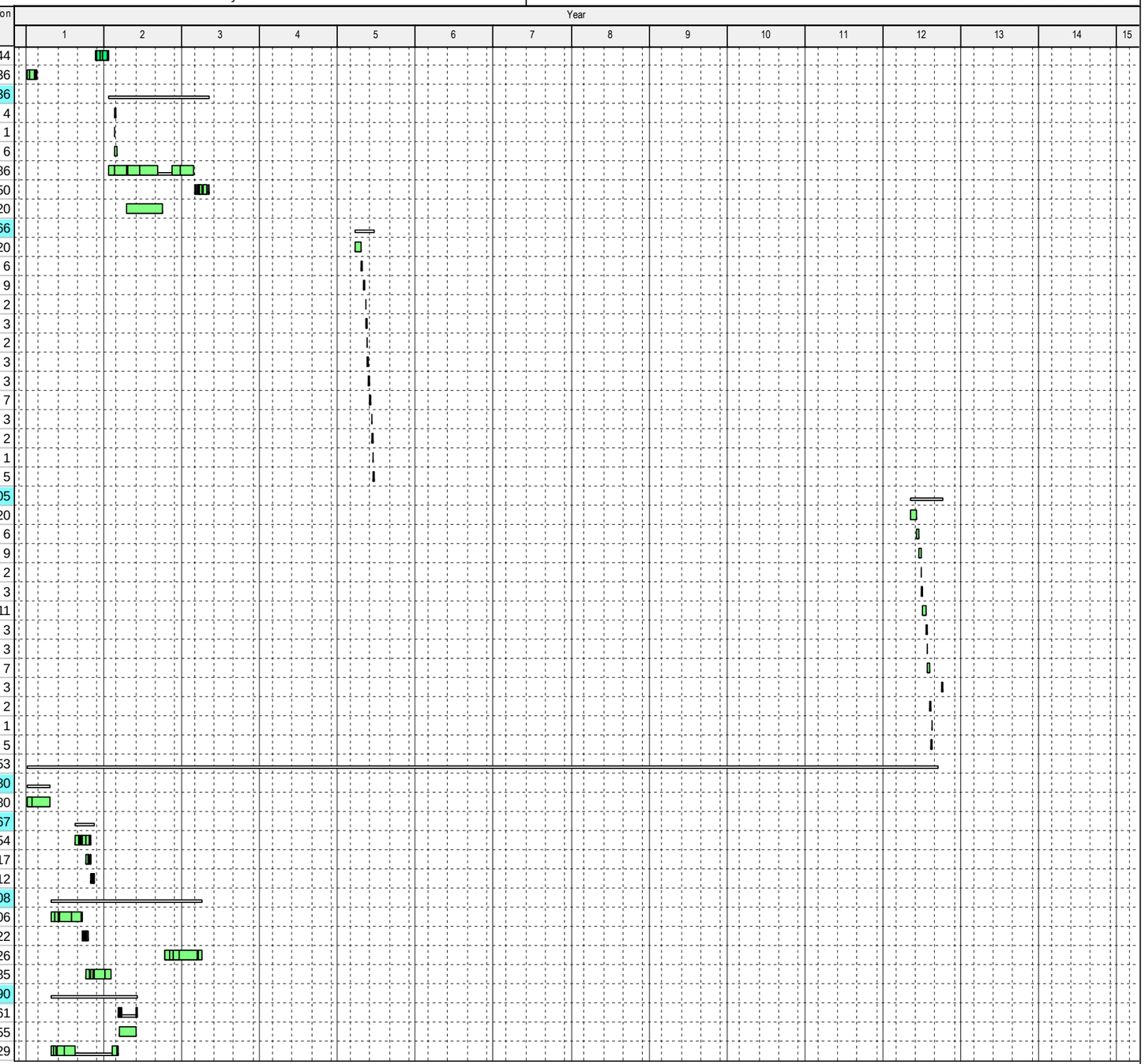
Construction Schedule - Option 1B: Central Alignment 6000 cfs Tee Screen Intake

Activity ID	Activity Name	Original Duration
DELTA CONVEYANCE PROJECT EDM - Central 1B 2020-09 Footprint		3721
CO CONSTRUCTION		3721
CO.PG PROGRAMMATIC MANAGEMENT		3201
CONSTRUCTION MILESTONES		3201
Construction Milestones		3201
G1010	NTP Early works	0
K1000	NTP Pumping Plant Works	0
A1000	NTP - Overall Construction Project	0
E1000	NTP Reach 2	0
C1000	NTP Reach 4	0
J1000	NTP Southern Forebay	0
D1000	NTP Reach 3	0
F1010	NTP - Reach 1	0
G1000	NTP Intake 5	0
B1000	NTP Reach 5	0
G9010	NTP Intake 3	0
I1000	NTP Intermediate overlays	0
G1020	NTP South Delta Connection Strucutres	0
B9000	Reach 5 Complete	0
F9002	Reach 1 Complete	0
G9020	Intake 5 Complete	0
D9000	Reach 3 Complete	0
C9000	Reach 4 Complete	0
J9000	Southern Forebay Complete	0
G9000	Intake 3 Complete	0
K9000	Pumping Plant Complete	0
G1030	South Delta Connection Structures Complete	0
E9000	Reach 2 Complete	0
I1010	NTP Final overlays	0
Z9000	Project Snagging	0
Z9010	Construction Completion	0
CO.EW CONSTRUCTION EARLY WORKS		3066
ROAD WORKS		3066
NORTH ROAD WORKS		3066
MOB/FACILITIES NORTH		80
771003000 - Mobilization - North		80
PARK AND RIDES		162
771314000-Employee Park & Ride - Rio Vista - Both		18
771315000-Employee Park & Ride - Hood Franklin - Both		155
ACCESS TO INTAKES		201
771120000 - Hood Franklin Road Widening		5
771130000-Intakes Access Road - Both		15
771150000 - C-E-5 Intake Access Road		55
771460000 - Lambert Road Widening		38
771840000 - Intake #3		48
771860000-Intakes - SR160 - Both		15
ACCESS TO TWIN CITIES		312
771420000 - Dierrsen Road Paving		42



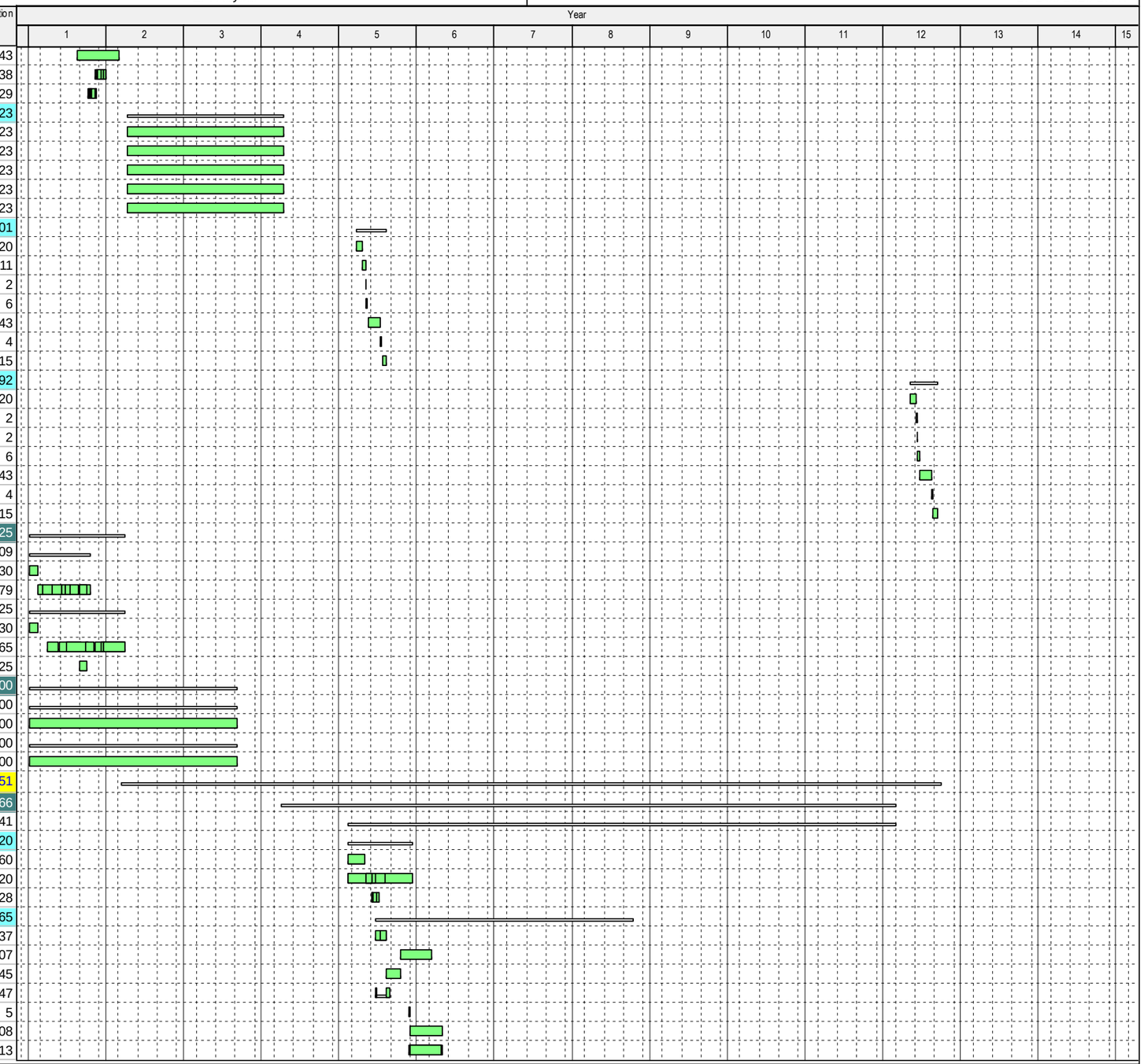
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
771430000	Franklin Blvd Improvements at Dierrsen	44
771470000	Twin Cities Road Widening (East)	36
ACCESS TO N MID DELTA		336
771360000	New Hope Tract/W Lauffer Rd Widening	4
771510000	Staten Island Maintenance Shaft Access Road	1
771510000	Staten Island Maintenance Shaft Access Road - Cent	6
771550000	Highway 12 Widening (7 miles)	286
771560000	Bouldin Island Rd	50
771560000	Bouldin Island Rd - Central	120
INTERMEDIATE OVERLAYS		66
771006300	Mobilization - Intrm Overlay - Both	20
771120000	Hood Franklin Road - Both	6
771130000	Intakes Access Road - Both	9
771140000	Bruns Way Widening - Both	2
771150000	C-E-5 Intake Access Road - Both	3
771350000	Western Farms Road - South - Both	2
771420000	Dierrsen Road Paving - Both	3
771430000	Franklin Blvd Improvements at Dierrsen - Both	3
771460000	Lambert Road Widening - Both	7
771470000	Twin Cities Road Widening (East) - Both	3
771610000	E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
771840000	Intake #3 Access Road - Both	1
771990000	Intake #2 Access Road - Option	5
FINAL OVERLAYS		105
771006600	Mobilization - Final Overlay - Both	20
771120000	Hood Franklin Road - Both	6
771130000	Intakes Access Road - Both	9
771140000	Bruns Way Widening - Both	2
771150000	C-E-5 Intake Access Road - Both	3
771210000	Southern Forebay Byron Highway New Interchange B	11
771420000	Dierrsen Road Paving - Both	3
771430000	Franklin Blvd Improvements at Dierrsen - Both	3
771460000	Lambert Road Widening - Both	7
771470000	Twin Cities Road Widening (East) - Both	3
771610000	E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
771840000	Intake #3 Access Road - Both	1
771990000	Intake #2 Access Road - Option	5
SOUTH ROAD WORKS		3053
MOB/FACILITIES SOUTH		80
771003005	Mobilization - South	80
PARK AND RIDES		67
771310000	Employee Park & Rides - Byron	54
771311000	Employee Park & Ride - Bethany	17
771313000	Employee Park & Ride - Charter Way	12
ACCESS TO S MID DELTA		508
771540000	Lower Jones Tract Road	106
771610000	Holt RR Overpass BNSF	22
771630000	Central Mandeville Island Access Road	126
771640000	Central Bacon Access Road	85
ACCESS TO SOUTHERN COMPLEX		290
771140000	Bruns Way Widening	61
771140000	Bruns Way Widening - Both	55
771210000	Southern Forebay Byron Highway New Interchange	229



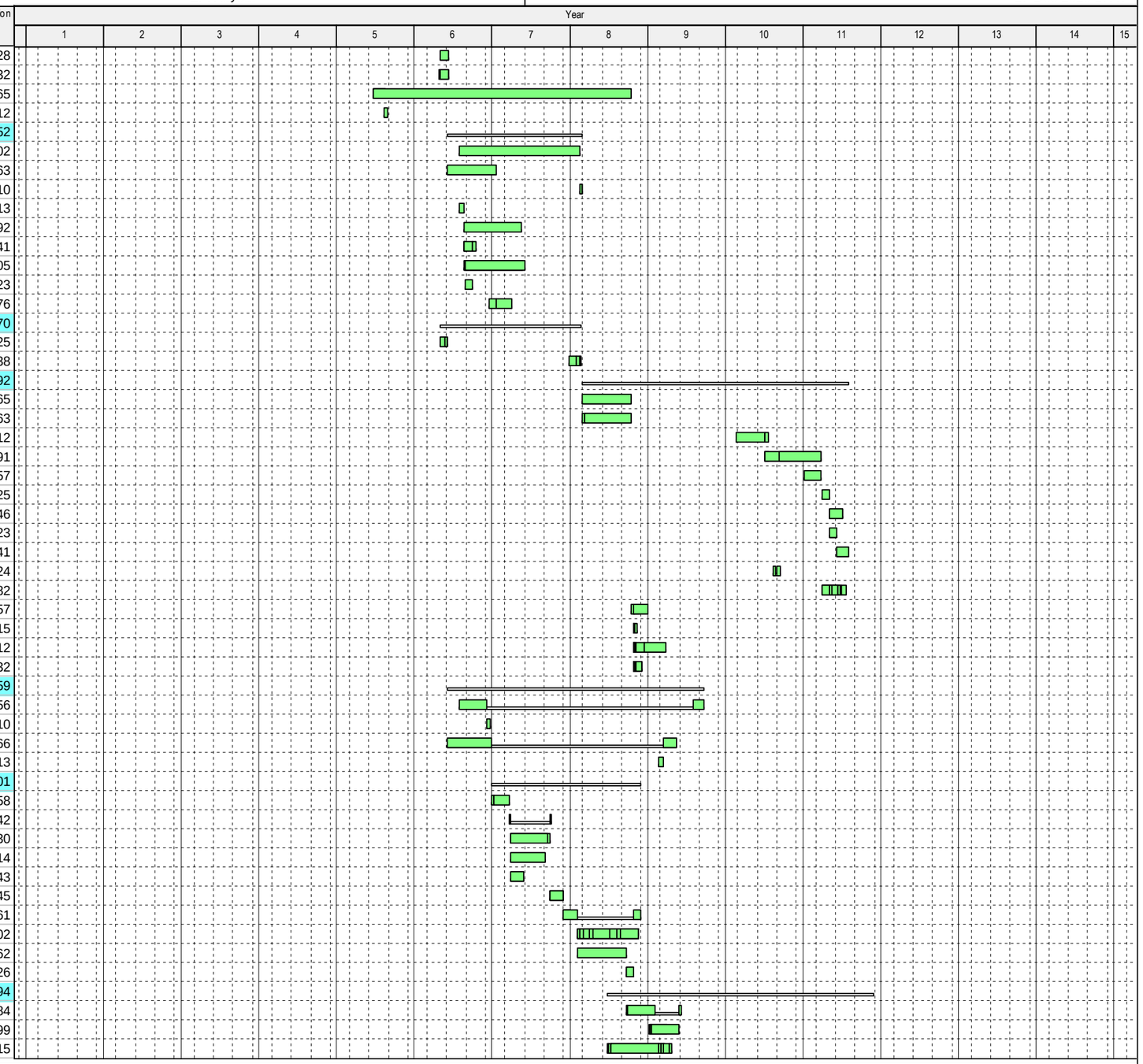
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
771210000	Southern Forebay Byron Highway New Interchange B	143
771340000	Discovery Bay Blvd Access Roads	38
771350000	Western Farms Road	29
	ROAD MAINTENENACE	523
771360000	New Hope Tract/W Lauffer Rd Widening - Central	523
771510000	Staten Island Maintenance Shaft Access Road - Cent	523
771540000	Lower Jones Tract Road - Central	523
771630000	Central Mandeville Island Access Road - Central	523
771640000	Central Bacon Access Road - Central	523
	INTERMEDIATE OVERLAYS	101
771006310	Mobilization - Intrm Overlay - Central	20
771210000	Southern Forebay Byron Highway New Interchange B	11
771340000	Discovery Bay Blvd - Central	2
771510000	Staten Island Maintenance Shaft Access Road - Cent	6
771550000	Highway 12 Widening - Central	43
771560000	Bouldin Island Rd - Central	4
771860000	Intakes - SR160 - Both	15
	FINAL OVERLAYS	92
771006610	Mobilization - Final Overlay - Central	20
771340000	Discovery Bay Blvd - Central	2
771350000	Western Farms Road - South - Both	2
771510000	Staten Island Maintenance Shaft Access Road - Cent	6
771550000	Highway 12 Widening - Central	43
771560000	Bouldin Island Rd - Central	4
771860000	Intakes - SR160 - Both	15
	RAIL WORKS	325
	NORTHERN GLANDEVILLE TRACT RAIL ACCESS	209
772003000	Mobilization	30
772017010	Dierssen Rail Yard	179
	SOUTHERN FOREBAY RAIL ACCESS	325
772003005	Mobilization - Both - South	30
772019	Byron Tract Rail Yard	265
772019060	Byron Tract Railroad Structures	25
	POWER AND UTILITY EARLY WORKS	700
	POWER/ELECTRIC WORKS	700
601008	Electrical	700
	UTILITY LOGISTICS	700
	Utility Logistics	700
	CO.MAJOR CONSTRUCTION	2751
	IN INTAKES	2066
	IN INTAKE 3	1841
	Mobilization & Operations	220
113003000	Intake 3 Contractor Mobilization	60
113007010	Construct Temp Buildings & Utilities	220
113007100	Intake 3 Build Site Construction Roads	28
	Phase 1 Sitework	865
113305100	Int 3 Ph1Site Clear & Grub	37
113305210	Int 3 Ph 1 DMM Soil Improvement	107
113305220	Int 3 Ph 1 DMM Cut-off Trench	45
113305230	Int 3 Ph 1 DMM Subcontract Mobe & Demobe	47
113305300	Int 3 Ph 1 Excavate Key Trenches	5
113305410	Int 3 Ph 1 Highway Temporary Fill from Reqd Exc	108
113305430	Int 3 Ph1 Moisture Condition Suitable Soil	113



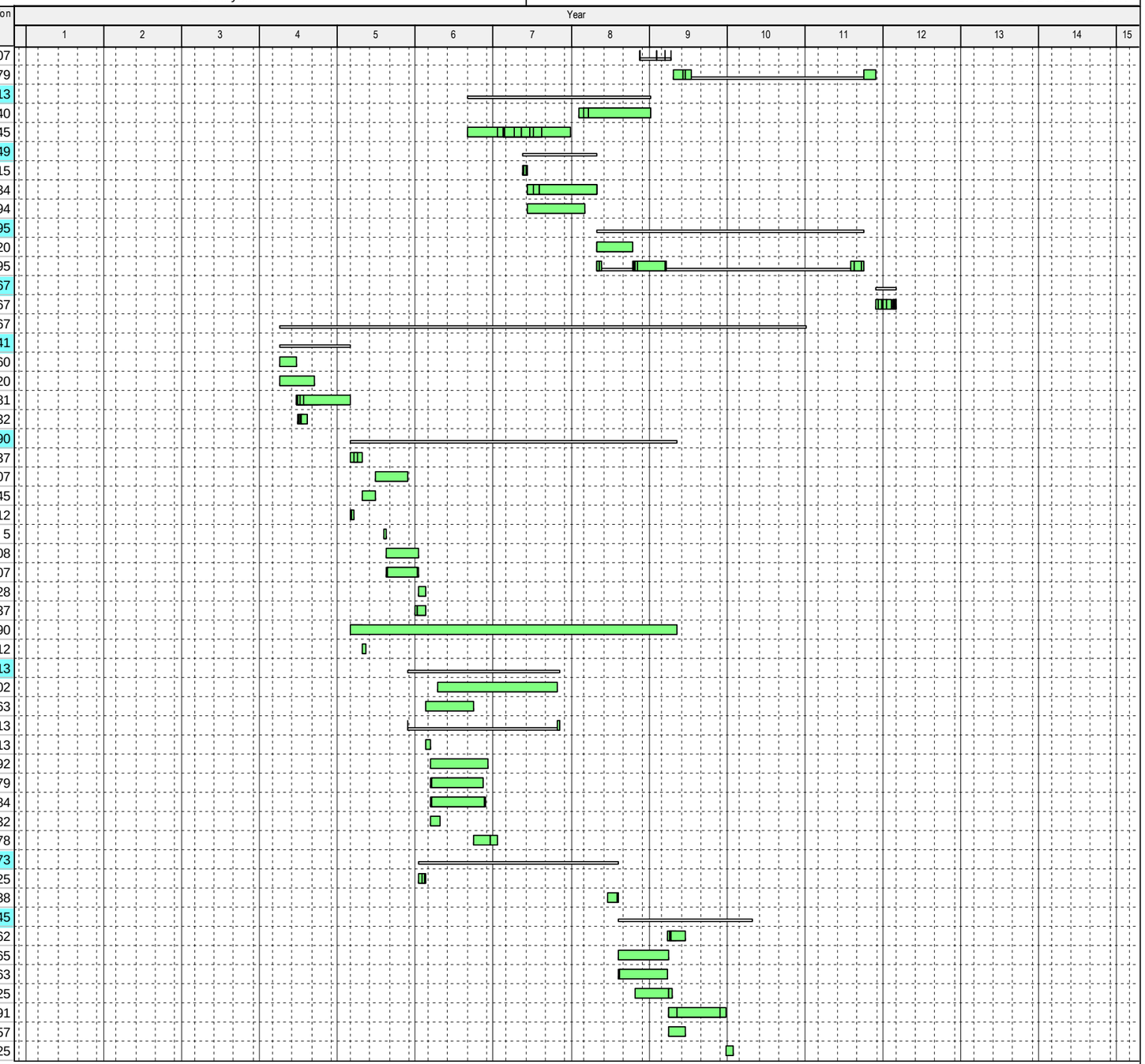
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113305510	Int 3 Ph1 Place Dike Fill from Reqd Excavation	28
113305520	Int 3 Ph 1 Moisture Condition Suitable Soil	32
113305600	Int 3 Ph1 Dewater Excavation W Deep Wells	865
113305800	Int 3 Ph 1 Temporary Plating	12
	Phase 2 Sitework	452
113306210	Int 3 Ph 2 DMM Soil Improvement	402
113306220	Int 3 Ph 2 DMM Cut-off Trench	163
113306230	Int 3 Ph 2 DMM Subcontract Mobe & Demobe	10
113306300	Int 3 Ph 2 Excavate Key Trenches	13
113306510	Int 3 Ph 2 Fills from Required Excavation	192
113306520	Int 3 Ph 2 Fills From Borrow	41
113306530	Int 3 Ph 2 Moisture Condition Suitable Soil	205
113306700	Int 3 Ph 2 Temporary Plating	23
113322300	H Piles in DMM Wall	76
	Roads	470
113305900	Intake 3 Pave Temporary Highway 160	25
113306800	Int 3 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	892
113309120	Int 3 Ph 3 Embankment Fill from Site Excavation	165
113309130	Int 3 Ph 3 Moisture Condition Soil	163
113309140	Int 3 Ph3 Excavate Unsuitable to Spoil	112
113309150	Int 3 Ph3 Final Grade and Invert Rock	191
113309160	Int 3 Ph3 Final Grade and Road Plating	57
113309200	Int 3 Ph 3 Dredge Pipe From Basin To Lagoons	25
113309320	Intake 3 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
113309330	Intake 3 Ph 3 Sed Drying Lagoons Underdrains	23
113309340	Intake 3 Ph 3 Sed Drying Lagoons Roller Compact	41
113309400	Intake 3 Hypalon Curtain	24
113309500	Intake 3 Final Utilities, Paving, Fence, S	82
113309600	Intake 3 Office & Vehicle Storage	57
113309700	Intake 3 Fueling Station	15
113309800	Intake 3 Substation & Elect Distribution	112
113309900	Intake 3 Drop Gate/Stoplog Storage Enclosure	32
	Cofferdams	859
113307100	Intake 3 HZ975D-14/AZ18 Front Combi Wall Coffer	556
113307200	Intake3 Fender System	10
113307300	Intake 3 PZC26 Back Wall Cofferdam	766
113307400	Dredging in front of Cofferdam	13
	Intake Structure	501
113313000	Intake 3 Excavate Inside Intake Coffertam	58
113315100	Mobilize Drill Spread	142
113315210	Drill & Case Pier Shafts	130
113315220	Reinforcing Steel	114
113315230	Place Fill Concrete	43
113317000	Intake 3 Tremie Concrete Under Intake Structure	45
113319000	Intake 3 Dewater Intake C'dam & Place Xbra	261
113321100	Intake 3 Place Concrete	202
113321200	Furnish And Place Rebar	162
113321300	Intake 3 Concrete Fill (flowable concrete)	26
	Intake MEP	894
113323000	Intake 3 Sluice Gates, Guides & Opera	184
113324500	Intake 3 Box Shaft Sluice Gates and Guides	99
113325000	Intake 3 Fish Screens, Panels, & Cleaning	215



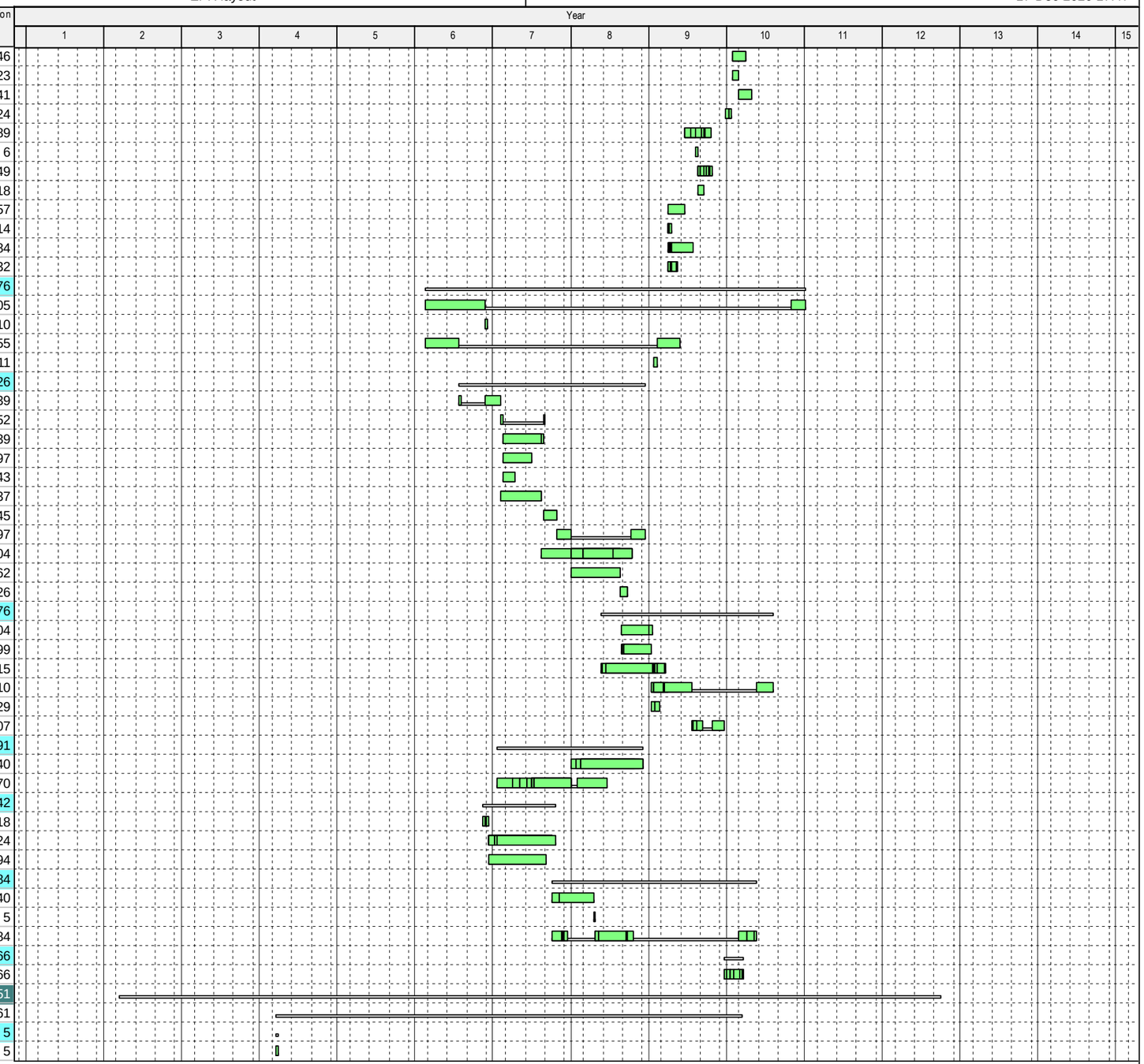
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113327000	Intake 3 MEP	107
113329000	Intake 3 Finish Out	679
Intake/Basin Pipe Connections		613
113322100	Steel Pipe installation	240
11332250	Sluice Gate Shaft & Outlet	345
Sedimentation Basins		249
113355000	Intake 3 Sediment Basin Drive Piles	15
113357100	Place Concrete	234
113357200	Furnish And Place Rebar	194
Sedimentation Basins MEP		895
113359000	Intake 3 Sediment Basin Radian Gates & Stoplogs	120
113361000	Intake 3 Sediment Basin MEP & Finish Work	895
Site Restoration		67
Intake No. 3 - Site Restoration		67
IN INTAKE 5		1767
Mobilization & Operations		241
115003000	Intake 5 Contractor Mobilization	60
115005060	Intake 5 Personnel Mobe Expense	120
115007010	Construct Temporary Buildings & Utilities	181
115007100	Intake 5 Build Site Construction Roads	32
Phase 1 Sitework		1090
115205100	Int 5 Ph1 Clear and Grub	37
115205210	Int 5 Ph 1 DMM Soil Improvement	107
115205220	Int 5 Ph 1 DMM Cut-off Trench	45
115205230	Int 5 Ph 1 DMM Subcontract Mobe & Demobe	12
115205300	Int 5 Ph 1 Excavate Key Trenches	5
115205410	Int 5 Ph 1 Highway Temporary Fill from Reqd Exc	108
115205430	Int 5 Ph1 Moisture Condition Suitable Soil	107
115205510	Int 5 Ph1 Place Dike Fill from Reqd Excavation	28
115205520	Int 5 Ph 1 Moisture Condition Suitable Soil	37
115205600	Int 5 Ph 1 Dewater Excavation with Deep Wells	1090
115205800	Int 5 Ph 1 Temporary Plating	12
Phase 2 Sitework		513
115206210	Int 5 Ph 2 DMM Soil Improvement	402
115206220	Int 5 Ph 2 DMM Cut-off Trench	163
115206230	Int 5 Ph 2 DMM Subcontract Mobe & Demobe	513
115206300	Int 5 Ph 2 Excavate Key Trenches	13
115206510	Int 5 Ph 2 Fills from Required Excavation	192
115206530	Int 5 Ph 2 Moisture Condition Suitable Soil	179
115206540	Int 5 Ph 2 Place Dike Core Fill from Borrow	184
115206700	Int 5 Ph 2 Place Temporary Gravel Plating	32
115222300	H Piles in DMM Wall	78
Roads		673
115205900	Int 5 Ph 2 Pave Temporary Highway 160	25
115206800	Int 5 Ph 2 Pave New Highway 160 & Dike Roads	38
Phase 3 Sitework		445
113309600	Intake 3 Office & Vehicle Storage	62
115209120	Int 5 Ph 3 Embankment Fill from Site Excavation	165
115209130	Int 5 Ph 3 Moisture Condition Soil	163
115209140	Int 5 Ph3 Excavate Unsuitable to Spoil	125
115209150	Int 5 Ph3 Final Grade and Invert Rock	191
115209160	Int 5 Ph3 Place Area Pllating	57
115209200	Int 5 Ph 3 Dredge Pipe From Basin To Lagoons	25



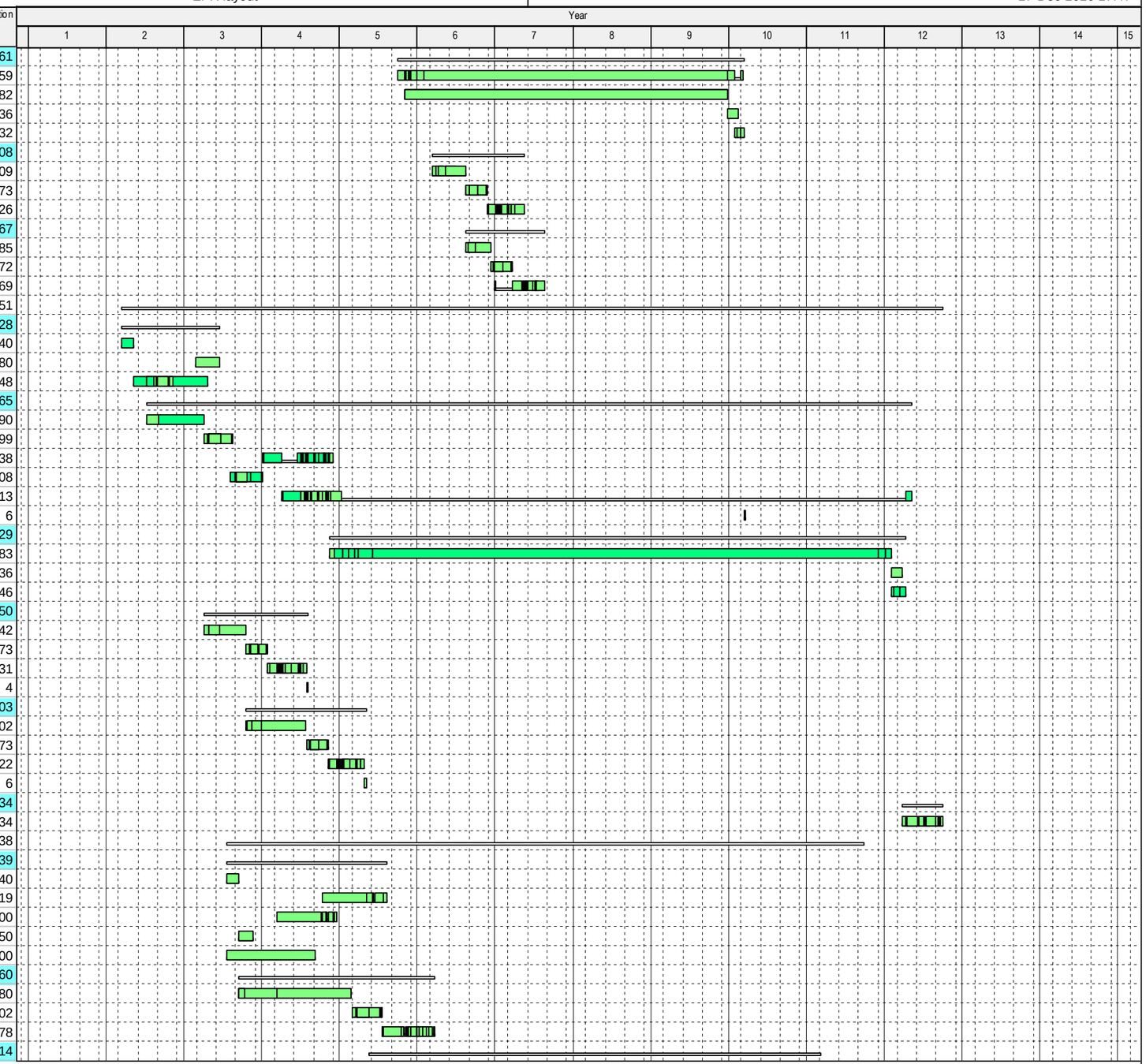
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
115209310	Int 5 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
115209320	Int 5 Ph 3 Sed Drying Lagoons Underdrains	23
115209330	Int 5 Ph 3 Sed Drying Lagoons Roller Compact	41
115209400	Int 5 Ph 3 Hypalon Curtain	24
115209500	Int 5 Ph3 Final Utilities, Paving, Fence, S	89
115209610	Place Gravel Foundation Bedding	6
115209620	Place Concrete Slab	49
115209630	Furnish And Place Rebar	18
115209640	Building Construction And Equipment	57
115209700	Fueling Station	14
115209800	Intake 5 Substation & Electrical Distribution	84
115209900	Intake 5 Drop Gate/Stoplog Storage Enclosure	32
Cofferdams		1276
115207100	Intake 5 HZ975D-14/AZ18 Front Combi Wall Coffer	805
115207200	Intake5 Fender System	10
115207300	Intake 5 PZC26 Back Wall Cofferdam	855
115207400	Dredge in front of Cofferdam	11
Intake Structural		626
115213000	Intake 5 Excavate Inside Intake Coffertam	139
115215100	Mobilize & Demobilize Drill Spread	152
115215210	Drill & Case As Reqd Pier Shafts	139
115215220	Reinforcing Steel	97
115215230	Concrete	43
115215240	Pier Shaft Contractor Profit, G&A, & Conti	137
115217000	Intake 5 Tremie Concrete Under Intake Stru	45
115219000	Intake 5 Dewater Intake C'dam & Place Xbra	297
115221100	Intake 5 Place Concrete	304
115221200	Furnish and Place Rebar	162
115221300	Intake 5 Place Fill Concrete (flowable concrete)	26
Intake MEP		576
115223000	Intake 5 Sluice Gates, Guides & Opera	104
115224500	Intake 5 Box Shaft sluice Gates and Guides	99
115225000	Intake 5 Fish Screens, Panels, & Cleaning	215
115227100	Intake 5 MEP	410
115227600	Intake 5 Gantry Cranes & Rail	29
115229000	Intake 5 Finish Out	107
Intake/Basin Pipe Connections		491
113322100	Steel Pipe installation	240
11522250	Sluice Gate Shaft & Outlet	370
Sedimentation Basins		242
115255000	Intake 5 Sediment Basin Drive Piles	18
115257100	Place Concrete	224
115257200	Furnish And Place Rebar	194
Sedimentation Basin MEP		684
115259000	Intake 5 Sediment Basin Radial Gates & Stoplogs	140
115261000	Intake 3 Sediment Basin MEP & Finish Work	5
115261000	Intake 5 Sediment Basin MEP & Finish Work	684
Site Restoration		66
Intake No. 5 - Site Restoration		66
TUNNELS AND SHAFTS		2751
REACH 1		1561
MOBILIZATION & INDIRECTS		5
21100425	Reach 1 Mobilize & Setup Main Construction Site	5



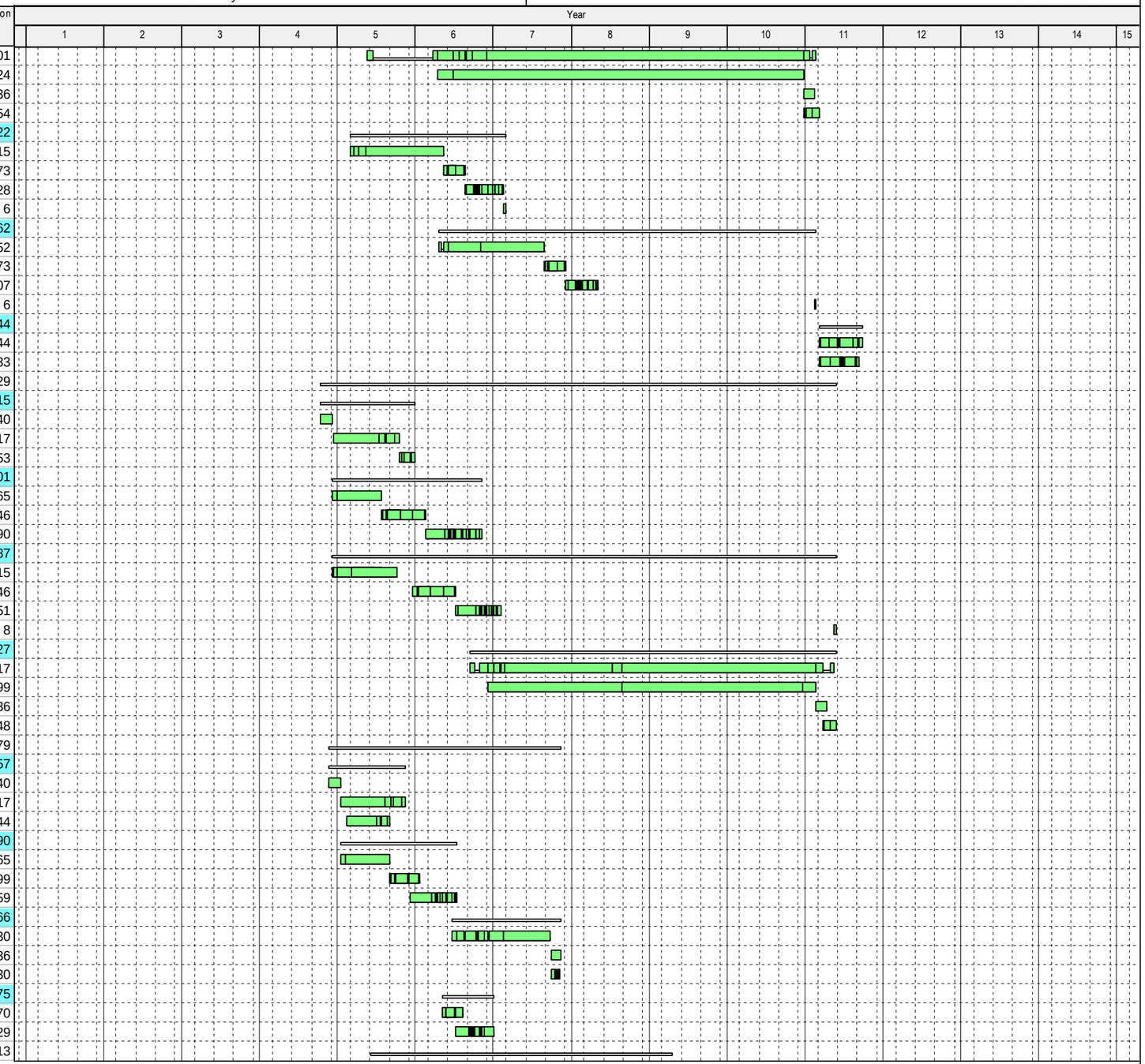
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	TUNNEL REACH 1	1161
	21300440 - Reach 1 Tunnel	1159
	21300440 - Reach 1 Tunnel Support	1082
	21300445 - Reach 1 Remove TBM	36
	21300460 - Reach 1 Remove Tunnel Utilities & Cleanup	32
	INTERMEDIATE SHAFT INTAKE 5 REACH 1	308
	216005 - Reach 1 Work Area for Pass through Shaft - Intake 5	109
	21600530 - Reach 1 D'Wall for Pass through Shaft - Intake 5	73
	21600535 - Reach 1 Excavate/build Pass through Shaft - Intake 5	126
	RECEPTION SHAFT INTAKE 3 REACH 1	267
	214005 - Reach 1 Work Area for Reception Shaft - Intake 3	85
	21400510 - Reach 1 D'Walls for Reception Shaft - Intake 3	72
	21400515 - Reach 1 Excavate/build Reception Shaft - Intake 3	169
	REACH 2	2751
	MOBILIZATION & INDIRECTS	328
	22100515 - Reach 2/1 Mobilize & Setup Site	40
	22200516 - Reach 2/1 Ring Levee around RTM	80
	22200522 - Reach 2 Work site area & segment pad	248
	DOUBLE LAUNCH SHAFT REACH 2/1	2565
	222005 - Reach 2/1 Work Area for Launch Shafts	190
	22200519 - Reach 2 D'Walls for Launch shaft	99
	22200520 - Reach 2 Excavate/build Launch Shaft	238
	22200525 - Reach 1 D'Wall for Launch shaft	108
	22200530 - Reach 1 Excavate/build Launch Shaft	2113
	22200531 - Reach 2/1 Launch Shaft Finishing	6
	TUNNEL REACH 2	1929
	22300530 - Reach 2 Tunnel	1883
	22300535 - Reach 2 Remove TBM	36
	22300550 - Reach 2 Remove Tunnel Utilities & Cleanup	46
	MAINTAINANCE SHAFT NEW HOPE TRACT	350
	225006 - Reach 2 Work Area for Maint Shaft - New Hope Tract	142
	22500610 - Reach 2 D'Walls for Maint Shaft - New Hope Tract	73
	22500615 - Reach 2 Excavate/build Maint Shaft - New Hope Tract	131
	22500616 - Reach 2 Maint Shaft Finishing - New Hope Tract	4
	MAINTAINANCE SHAFT STATEN ISLAND	403
	226006 - Reach 2 Work Area for Maint Shaft - Staten Island	202
	22600625 - Reach 2 D'Walls for Maint Shaft - Staten Island	73
	22600630 - Reach 2 Excavate/build Maint Shaft - Staten Island	122
	22600635 - Reach 2 Maint Shaft Finishing - Staten Island	6
	Site Restoration	134
	Glanville Tract - Launch Shaft Site Restoration	134
	REACH 3	2138
	MOBILIZATION & INDIRECTS	539
	23100005 - Reach 3 Mobilize & Setup Main Site	40
	23100006 - Reach 3 Work site RTM Area preparation	219
	23100006 - Reach 3 Work site segment pad	200
	23100007 - Reach 3 Work site Levee improvements	50
	23300050 - Reach 3 Tunnel Plant & Equipment	300
	LAUNCH SHAFT REACH 3 BOULDINISLAND	660
	232000 - Reach 3 Work Area for Launch Shaft - Bouldin Island	380
	23200009 - Reach 3 D'Walls for Launch Shaft - Bouldin Island	102
	23200010 - Reach 3 Excavate/build Launch Shaft - Bouldin Island	178
	TUNNEL REACH 3	1514



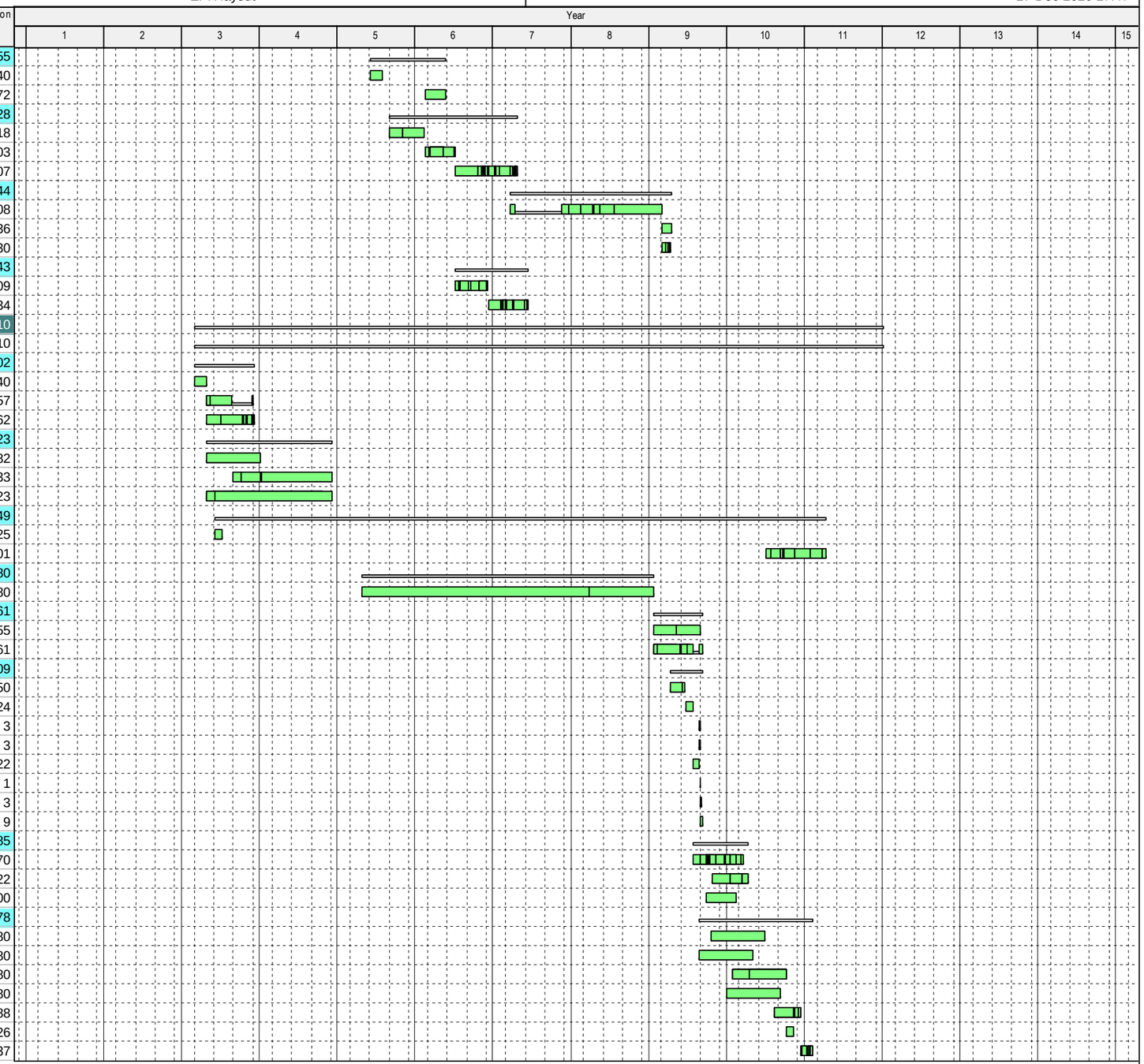
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
23300020	Reach 3 Tunnel	1501
23300020	Reach 3 Tunnel Support	1224
23300025	Reach 3 Remove TBM	36
23300040	Reach 3 Remove Tunnel Utilities & Cleanup	54
MAINTAINANCE SHAFT MANDEVILLE ISLAND		522
235000	Reach 3 Work Area for Maint shaft - Mandeville island	315
23500096	Reach 3 D'Wall for Maint Shaft - Mandeville Island	73
23500097	Reach 3 Excavate/build Maint Shaft - Mandeville Island	128
23500098	Reach 3 Shaft Finishing - Mandeville Island	6
RECEPTION SHAFT BACON ISLAND		1262
234000	Reach 3(4) Work Area for Reception Shaft - Bacon Island	352
23400014	Reach 3(4) D'Wall for Reception Shaft - Bacon Island	73
23400015	Reach 3 (4) excavate/build reception Shaft - Bacon Island	107
23400016	Reach 3(4) Reception Shaft Finishing - Bacon Island	6
Site Restoration		144
Bouldin Island	Launch Shaft Site Restoration	144
Lower Roberts Island	Launch Shaft Site Restore	133
REACH 4		1729
MOBILIZATION & INDIRECTS		315
24100115	Reach 4 Mobilize & Setup Site - SF North	40
24100116	Reach 4 RTM site preperation - SF North	217
24200186	Reach 4 Work Area Segment pad - SF North	53
LAUNCH SHAFT SF NORTH		501
242001	Reach 4 Work Area for Launch Shaft - South Forebay	165
24200119	Reach 4 D'walls for Launch Shaft - South Forebay	146
24200120	Reach 4 Excavate/build Launch Shaft - South Forebay	190
WORK SHAFT BYRON TRACT		1687
242001	Reach 4 Work Area for Work Shaft - Byron Tract	215
24200187	Reach 4 D'Wall for Work Shaft - Byron Tract	146
24200189	Reach 4 Excavate/build Work Shaft - Byron Tract	151
24210100	Reach 4 Work Shaft Finishing - Byron Tract	8
TUNNEL REACH 4		1227
24300125	Reach 4 Tunnel	1217
24300125	Reach 4 Tunnel Support	1099
24300130	Reach 4 Remove TBM	36
24300145	Reach 4 Remove Tunnel Utilities & Cleanup	48
REACH 5E		779
MOBILIZATION & INDIRECTS		257
25100630	Reach 5 Mobilize & Setup Site	40
25100631	Reach 5 RTM site preperation	217
25200635	Reach 5 Work Area Segment pad	144
LAUNCH SHAFT REACH 5E		390
25200635	Reach 5E Launch Shaft Work Area	165
25200640	Reach 5E D'Wall for Launch Shaft	99
25200645	Reach 5E Excavate/build Launch Shaft	159
TUNNEL REACH 5E		366
25300660	Reach 5E Tunnel	330
25300665	Reach 5E Remove TBM	36
25300680	Reach 5E Remove Tunnel Utilities & Cleanup	30
RECEPTION SHAFT REACH 5E		175
25400650	Reach 5E D'Wall Reception Shaft	70
25400651	Reach 5E Excavate/build Reception Shaft	129
REACH 5W		1013



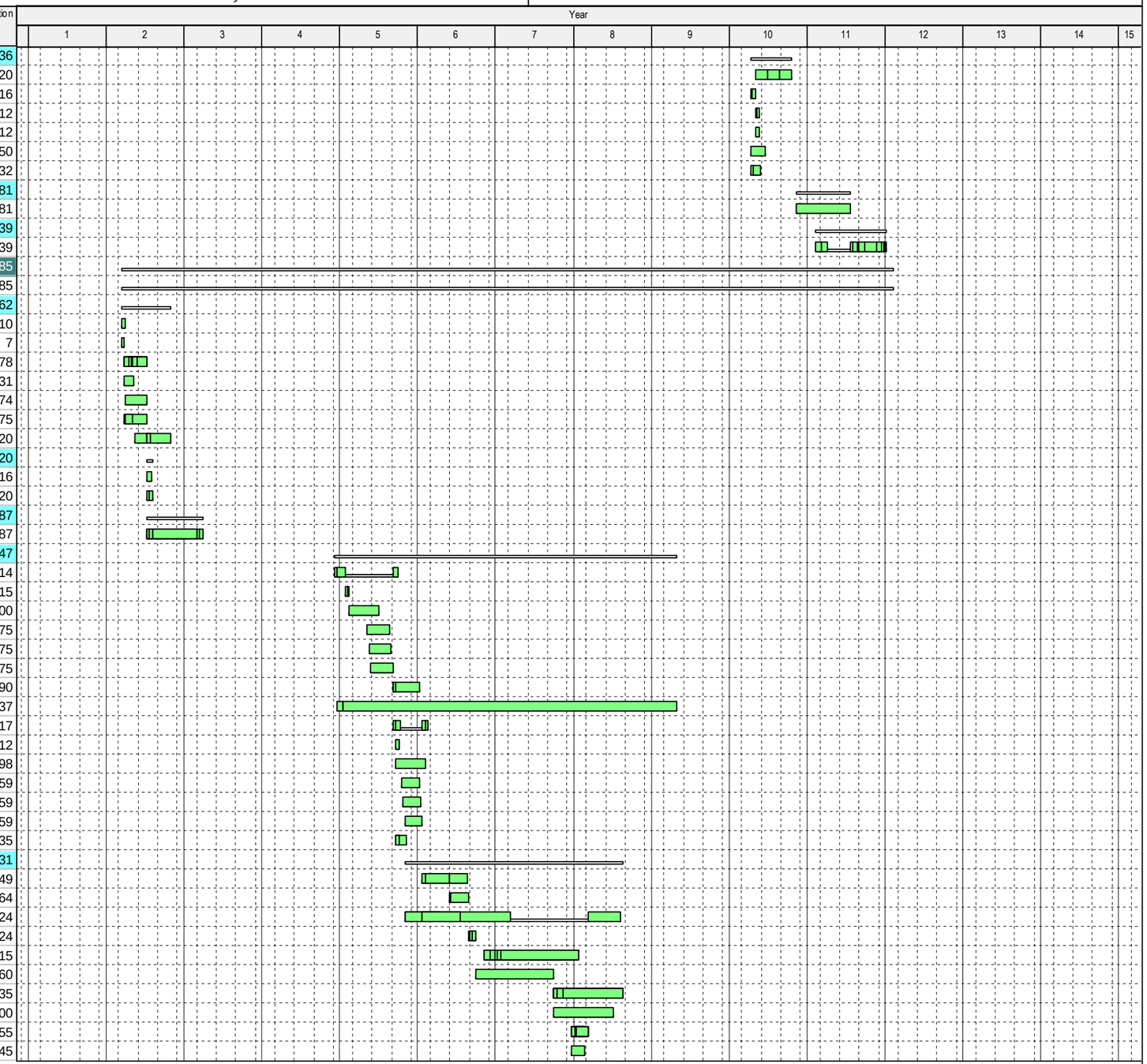
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	MOBILIZATION & INDIRECTS	255
	26100730 - Reach 5W Mobilize & Setup Site	40
	26200735 - Reach 5W Launch Shaft Work Area	72
	LAUNCH SHAFT REACH 5W	428
	26200735 - Reach 5W Launch Shaft Work Area	118
	26200740 - Reach 5W D'Wall for Launch Shaft	103
	26200745 - Reach 5W Excavate/build Launch Shaft	207
	TUNNEL REACH 5W	544
	26300760 - Reach 5W Tunnel	508
	26300765 - Reach 5W Remove TBM	36
	26300780 - Reach 5W Remove Tunnel Utilities & Clean Up	30
	RECEPTION SHAFT REACH 5W	243
	26400650 - Reach 5W D'Wall for Reception Shaft	109
	26400751 - Reach 5W Excavate/build Reception Shaft	134
	FR FOREBAY	2310
	SOUTHERN FOREBAY	2310
	Mobilization & Overhead	202
	331003000 - S Forebay Contractor Mobilization	40
	331005080 - Job Site Plant	157
	331005100 - Site Prep Plant	162
	Foundations	423
	332005000 - Southern Forebay Clear & Grub/Demolition	182
	332035100 - Dewater Embankment Foundation	333
	332035125 - Foundation Excavation Pad Fill for S Forbay	423
	Material Handling	2049
	332035200 - Material Handling	25
	332035300 - Rip Rap	201
	East Embankment	980
	332035260 - Preload East Embankment	980
	DMM Wall	161
	332035159 - DMM Walls	155
	332050100 - S Forebay Outlet Struct Sitework	161
	Piles	109
	332050210 - Provide Foundation Piles	50
	332050220 - Drive Steel Pipe Piles	24
	332050240 - Conc Placing Crew	3
	332050250 - Conc Plant & Ops	3
	332050260 - Rebar Cages	22
	332050280 - Conc Placing Crew	1
	332050290 - Conc Plant & Ops	3
	332050300 - Cure & Cleanup	9
	Spillway	185
	333010000 - New Spillway Earthwork	170
	333020020 - Concrete Work	122
	333020030 - Rebar	100
	Outlet Structure	378
	333005010 - S Forebay Outlet Slab Concrete	180
	333005020 - S Forebay Outlet Slab Rebar	180
	333005030 - S Forebay Outlet Wall Concrete	180
	333005040 - S Forebay Outlet Wall Rebar	180
	333005050 - S Forebay Outlet Roof Concrete	88
	333005060 - S Forebay Outlet Roof Rebar	26
	333005061 - SF Outlet Struct Conc, Matt	37



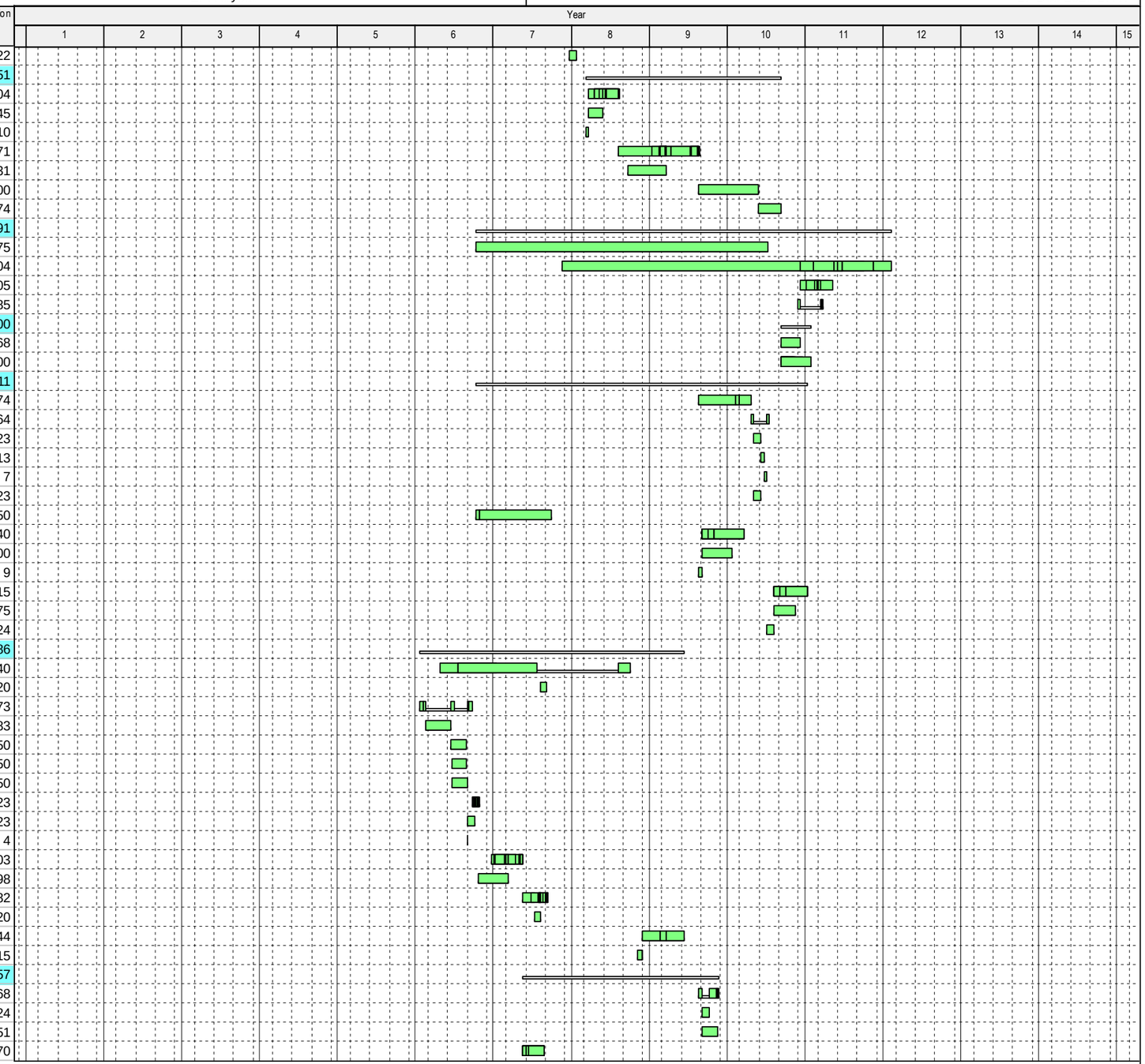
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	Gates & MEP	136
	333005080 - S Forebay Inlet Drop Gates	120
	333005090 - S Forebay Inlet Gantry Crane	16
	333005100 - S Forebay Inlet Trash Rack	12
	333005120 - Intermediate Forebay Inlet Misc. Metal	12
	333005130 - Intermediate Forebay Inlet Misc. Electrica	50
	333005140 - Intermediate Forebay Inlet Piping	32
	Site Finishes	181
	332050010 - SFB Dike Hydroseed & Fencing	181
	Site Restoration	239
	Southern Forebay Site Restoration	239
	PP PUMPING PLANT	2585
	PUMPING PLANTS	2585
	Mobilization & Overhead	162
	441003000 - Mobilize Pump Plant Contractor	10
	441009010 - Place Foundation Gavel Bedding	7
	441009020 - Place Foundation Concrete	78
	441009030 - Furnish And Place Rebar	31
	441009040 - Contractors Office	74
	441009050 - Shops & Warehouse	75
	441009060 - Other Structures	120
	Sitework	20
	442005020 - Clear & Grub/Demolition BT Area	16
	442005100 - Temporary Plating	20
	Ground Improvements (DMM)	187
	442020000 - BT Pump Plant Ground Improvement(DMM)	187
	BT Pump Plant Diaphragm Walls	1147
	443005010 - Slurry Wall Mobe and Demobe (Exterior Diaphram Walls)	214
	443005040 - Temporary Plating (Ext, Diaph. Walls)	15
	443005050 - Set Guide Walls (Ext. Diaph. Walls)	100
	443005060 - Excavate (Hydromill) Slurry Trench (Ext. Diaph. Walls)	75
	443005070 - Reinforcing Steel (Ext. Diaph. Walls)	75
	443005080 - Concrete (Ext. Diaph Walls)	75
	443005090 - Slurry Wall Contractor Overhead And Profit (Ext Diaph. Walls)	90
	443005110 - Deep Wells	1137
	443010010 - Slurry Wall Mobe & Demobe (Int. Diaph Walls)	117
	443010040 - Temporary Plating (Int. Diaph Walls)	12
	443010050 - Set Guide Walls (Int. Diaph Walls)	98
	443010060 - Excavate (Hydromill) Slurry Trench (Int. Diaph Walls)	59
	443010070 - Reinforcing Steel (Int. Diaph. Walls)	59
	443010080 - Concrete (Int. Diaph. Walls)	59
	443010090 - Slurry Wall Contractor Overhead And Profit (Ext. Diaph Walls)	35
	Pump Plant Foundation Slabs, Walls, Pump Can Concrete	731
	442025000 - BT Pump Plant Exc. Pump Inside Dia. Wall	149
	442035000 - BT Pump Plant Exc. Wet Well -84 to 28.0	64
	442040000 - Dewater & Install Bracing	724
	443014999 - BT Pump Plant Tremie Conc. Bottom Slab	24
	443015010 - Place Concrete (Pump Can Concrete)	315
	443015020 - Furnish And Place Rebar (Pump Can Concrete)	260
	443020010 - Place Concrete (Exterior Struc. Walls)	235
	443020020 - Furnish And Place Rebar (exterior Struc. Walls)	200
	443025010 - Place Concrete (Slab at El.-77.0)	55
	443025020 - Furnish And Place Rebar (Slab at El.-77.0)	45



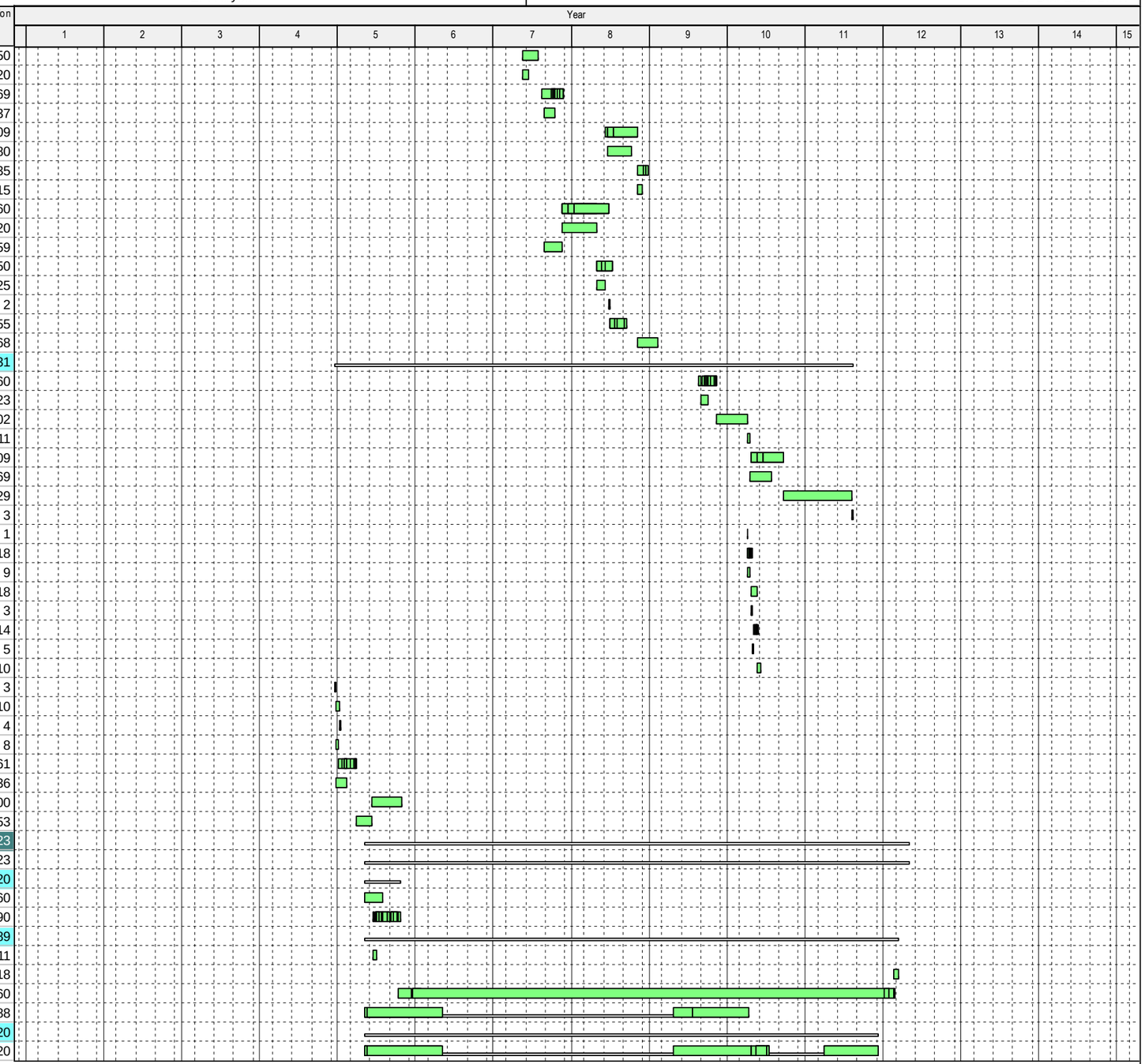
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
443025030	Foundation Prep (Slab at El.-77.0)	22
	Pump Plant Operation Deck & Structure Above EL. 2950	651
443030010	Interior Walls to OP Deck Place Concrete	104
443030020	Interior Walls Furnish And Place Rebar	45
443030030	Interior Walls Foundation Prep	10
443035010	Operations Deck Place Concrete	271
443035020	Operations Deck Furnish And Place Rebar	131
443070000	PP Structure Above El. 2950	200
443080000	Pump Plant Roof Structure	74
	Structure Misc Metals & MEP	1391
443040000	Pump Plant Miscellaneous Metals	975
443045000	1123 cfs Pumps & Operators	1104
443050000	563 cfs Pumps & Operators	105
443051000	Wet Well Dewatering Pumps	85
	Pump Plant MEP	100
443075000	Pump Plant Overhead Crane	68
443085000	Pump Plant Structure Finish Out	100
	Dissipation Slab	1111
442050000	Pump Plant Exc. For Splash Basin	174
442055010	Mobilize & Demobe Drill Spread	64
442055030	Drill & Case As Reqd Pier Shafts	23
442055040	Reinforcing Steel - CDIH Piers	13
442055050	Concrete - CDIH Piers	7
442055060	Pier Shaft Contractor Profit, G&A, & Conti	23
443055000	Piping to Splash Basin	250
443060010	PP Pipe Encasement Place Concrete	140
443060020	PP Pipe Encasement Furnish And Place Rebar	100
443060030	PP Pipe Encasement Foundation Prep	9
443065010	Splash Pad Place Concrete	115
443065020	Splash Pad Furnish And Place Rebar	75
443065030	Splash Pad Foundation Prep	24
	Wet Well	886
442045000	Dewater & Install Bracing in Wet Well Section	640
442065000	Excavate WetWell Inlet Conduit	20
444005010	Wet Well Slurry Wall Mobe & Demobe	173
444005050	Wet Well Slurry Wall Set Guide Walls	83
444005060	Wet Well Excavate (Hydromill) Slurry Trench	50
444005070	Wet Well Reinforcing Steel	50
444005080	Wet Well Concrete	50
444010010	Wet Well Inlet Place Concrete (Bottom Slab)	23
444010020	Wet Well Inlet Furnish And Place Rebar (Bottom Slab)	23
444010030	Wet Well Inlet Foundation Prep (Bottom Slab)	4
444015010	Wet Well Inlet Place Concrete (Walls)	103
444015020	Wet Well Inlet Furnish And Place Rebar (Walls)	98
444020010	Wet Well Inlet Top Deck Place Concrete	82
444020020	Wet Well Inlet Top Deck Furnish And Place Rebar	20
444025010	Wet Well Inlet Top Deck Double Isolation Roller Gates	144
444025020	Wet Well Inlet Top Deck Double Isolation Gantry Crane	15
	Outlet Structure	657
442070000	Gravity Flow Outlet Structure Sheet Pile for Exc.	68
442071000	Remove Top 105' of Interior Wall	24
442080000	Excavation for Gravity Flow Structure	51
444030010	Place Concrete (Bottom Slab)	70



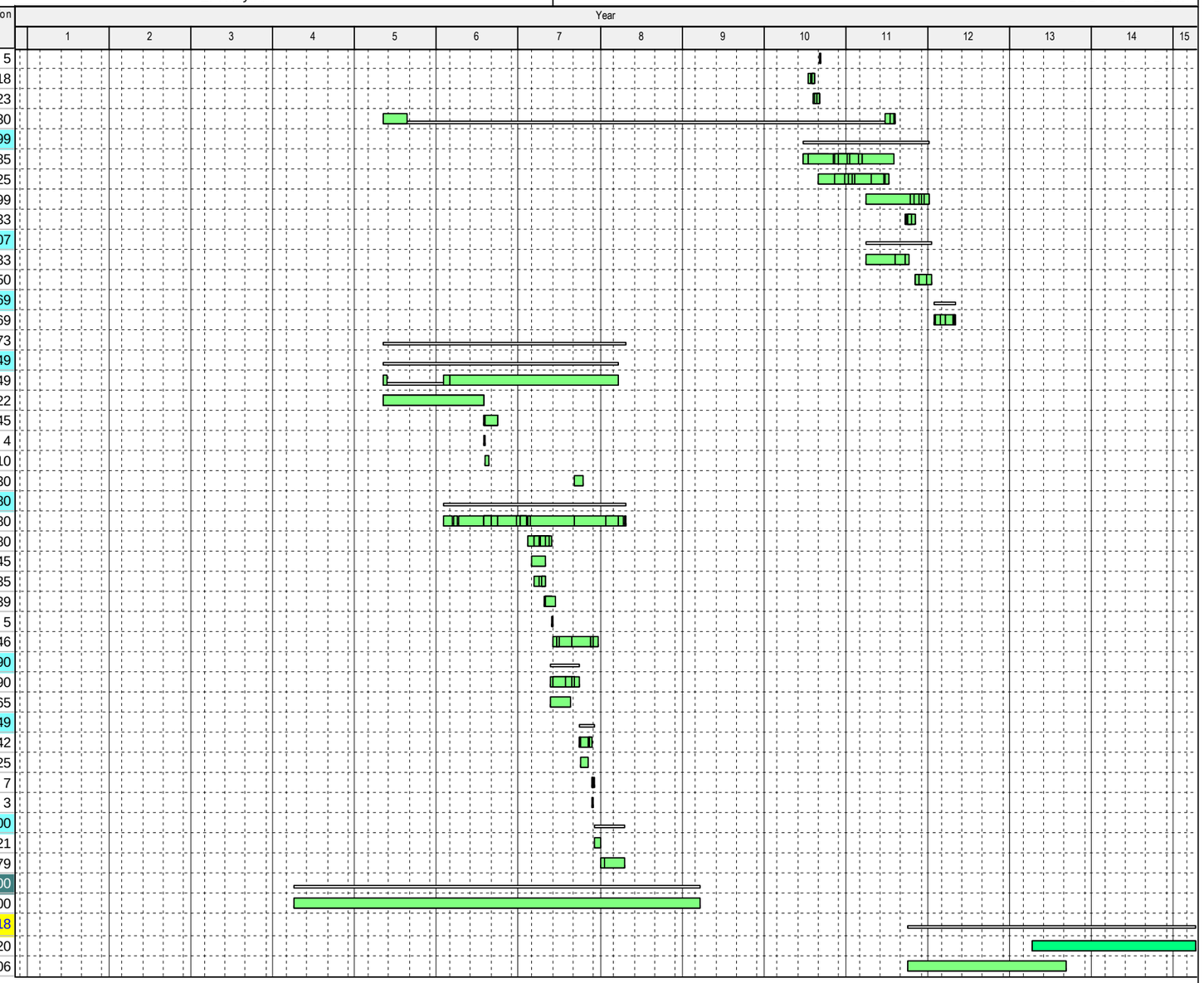
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
444030020	Furnish And Place Rebar (Bottom Slab)	50
444030030	Foundation Prep (Bottom Slab)	20
444035010	Place Concrete (Walls)	69
444035020	Furnish And Place Rebar (Walls)	37
444040010	Place Concrete (Top Slab)	109
444040020	Furnish And Place Rebar (Top Slab)	80
444050010	Gravity Flow Roller Gates	35
444050020	Gravity Flow Gantry Crane	15
444055010	Gravity Flow Structure Place Concrete	160
444055020	Gravity Flow Strucutre Furnish And Place Rebar	120
444055030	Gravity Flow Structure Foundation Prep	59
444060010	PP Outlet Retaining Wall Concrete	50
444060020	PP Outlet Retaining Wall Rebar	25
444060030	PP Outlet Retaining Wall Concrete	2
444061010	Slab & Walls Between PP & Launch Shaft Wall Concrete	55
444065000	PP Gravity Outlet Flow Structure Overhead Crane	68
Ancilarry Buildings & Structures		1731
443090010	PP MCC/Electrical Building Foundation Slab	60
443090020	PP MCC/Electrical Building Furnish And Place Rebar	23
443090030	PP MCC/Electrical Building Building Construction And Equipment	102
443095010	PP Storage Area & Yard Place Foundation Gavel Bedding	11
443095020	PP Storage Area & Yard Place Foundation Slab Concrete	109
443095030	PP Storage Area & Yard Furnish And Place Rebar	69
443095040	PP Storage Area & Yard Building Construction And Equipment	229
443100020	PP Storage Area & Yard Place Gavel Bedding	3
443105010	Generator Building Place Foundation Gravel Bedding	1
443105020	Generator Building Place Foundation Concrete	18
443105030	Generator Building Furnish And Place Rebar	9
443105040	Generator Building Construction And Equipment	18
443106010	HVAC Yard Place Foundation Gravel Bedding	3
443106020	HVAC Yard Place Foundation Concrete	14
443106030	HVAC Yard Furnish And Place Rebar	5
443106040	HVAC Yard Equipment Install	10
443110010	Substation Excavate/Grade Foundation Slab	3
443110020	Substation Provide Foundation Piles (50 LF)	10
443110030	Substation Drive Foundation Piles	4
443110040	Substation Place Gavel Bedding	8
443110050	Substation Place Concrete	61
443110060	Substation Furnish And Place Rebar	36
443110070	Substation Erect Substation & Transformers	100
443110080	Substation & Electrical Distribution	53
SOUTH DELTA CONNECTIONS		1823
BANKS OUTLET STRUCTURE		1823
Mobilization & Overhead		120
551020000	Mobilization	60
551050	Temporary Facilities	90
Tunnel Outlet		1789
552005	Clearing & Grubbing Banks Outlet Struct Area	11
552008	Site Fencing	18
552505	Banks Tunnel Outlet Structure Dewatering	1660
553005	Outlet Structure Earthwork	1288
Outlet Structure		1720
553005	Outlet Structure Earthwork	1720



TASK filter: summary schedule.

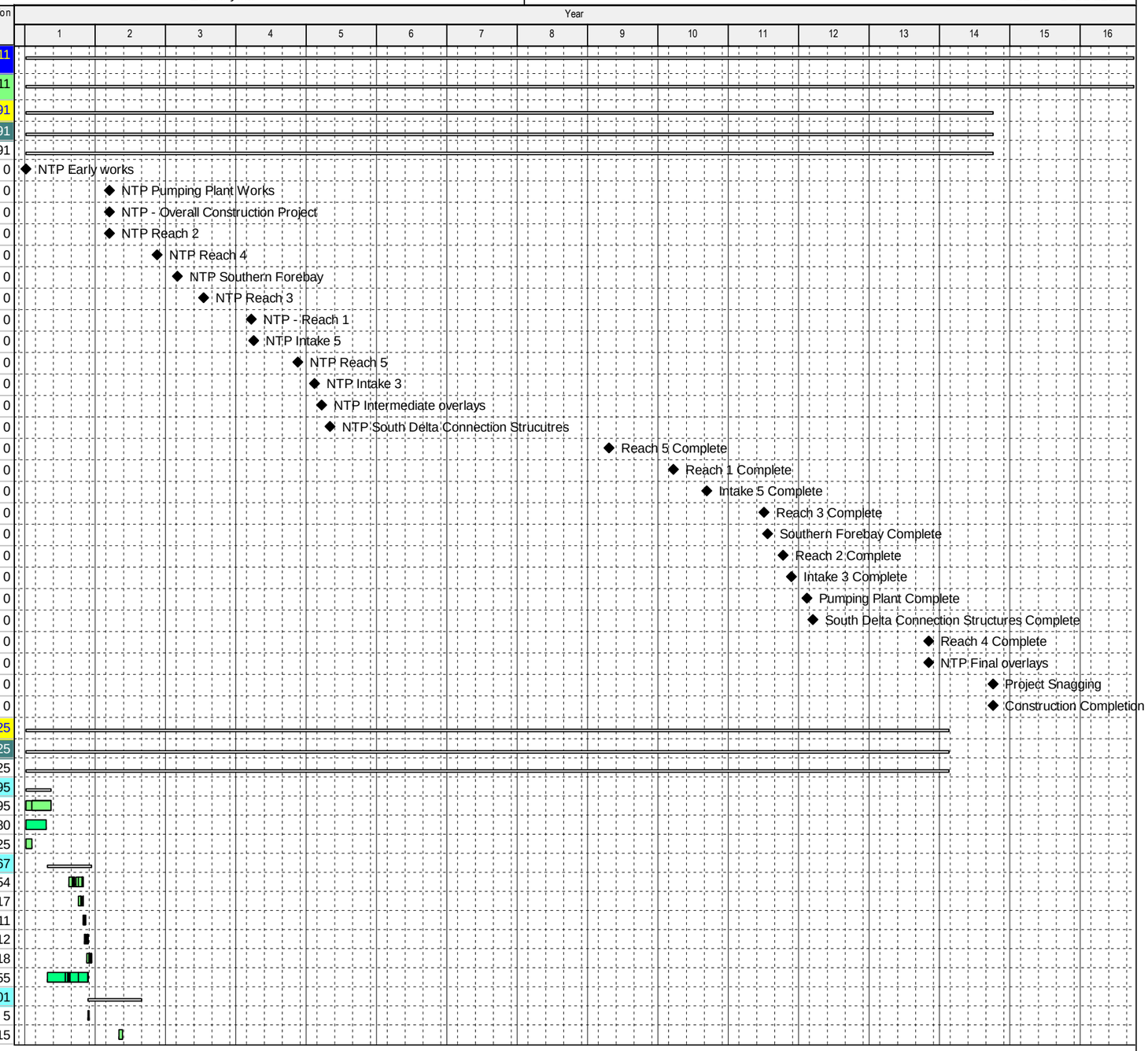
Activity ID	Activity Name	Original Duration
	553015 - Stilling Well Backfill	5
	553015 - Stilling Well Slab	18
	553015 - Stilling Well Walls	23
	553030 - Sheetpiles	1630
	Slab & Weir	399
	553015 - Banks Tunnel Outlet Structure Slab Concrete	285
	553015 - Banks Tunnel Outlet Walls & Pier Concrete	225
	5530151 - BTO Bridge Slab Concrete	199
	5530157 - BTO CS Weir Concrete	33
	Gates & MEP	207
	553020 - Banks Tunnel Outlet Structure Gates & Stop Logs	133
	553025 - Banks Tunnel Outlet Structure MEP	50
	Site Restoration	69
	S. Delta Outlet/CA Aque Cont. Str.-Restoration	69
	CALIFORNIA AQUIDUCT CONTROL STRUCTURE	773
	Earthworks	749
	55303001 - Dewater Canal Structure	749
	55303003 - Excavate Diversion Channel	322
	55303004 - Push/Pile Excavation On Outside Of Channel	45
	55303005 - Scarify & Recompact Canal Invert	4
	55303006 - Finish & Compact	10
	55303007 - Backfill	30
	Slab	580
	5530350 - Calif. Aqueduct Control Structure Earthworks	580
	553040010 - California Aqueduct CS Slab Concrete	80
	553040020 - California Aqueduct CS Slab Rebar	45
	553040021 - California Aqueduct CS CS Stilling Wells Slab	35
	553040021 - California Aqueduct CS CS Stilling Wells Walls	39
	553040024 - California Aqueduct CS CS Stilling Wells Backfill	5
	553045000 - Articulated Paving Blocks	146
	Walls	90
	553040030 - Californiua Aqueduct CS Wall Concrete	90
	553040040 - California Aqueduct CS Wall Rebar	65
	Weir & Bridge	49
	553040050 - California Aqueduct CS Bridge Slab Concrete	42
	553040060 - California Aqueduct CS Bridge Slab Rebar	25
	553040070 - California Aqueduct CS Weir Concrete	7
	553040080 - California Aqueduct CS Weir Rebar	3
	Gates & MEP	100
	553040090 - California Aqueduct CS Misc. Metal	21
	553040100 - California Aqueduct CS Gates & Stoplogs	79
	MISC ADDITIONAL CONSTRUCTION ACTIVITIES	1300
	Allowance	1300
	CM COMMUNICATION & CONTROL / COMMISSIONING	918
	Commissioning	520
	Communicatrion & Control	506



TASK filter: summary schedule.

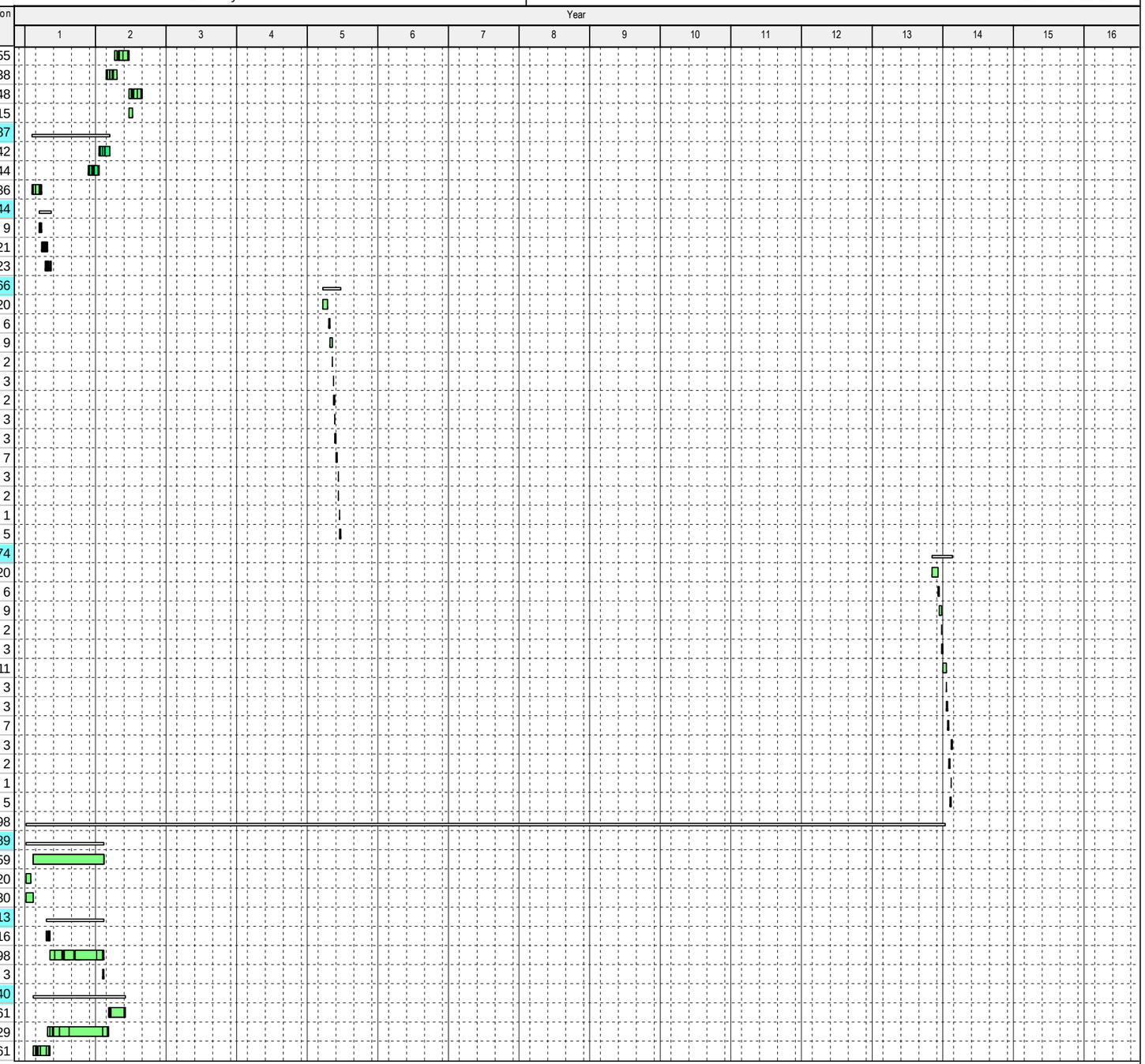
Construction Schedule - Option 2A: Eastern Alignment 6000 cfs Vertical Plate Screen Intake

Activity ID	Activity Name	Original Duration
DELTA CONVEYANCE PROJECT EDM - Eastern 2A 2020-07 Footprint		4111
CO CONSTRUCTION		4111
CO.PG PROGRAMMATIC MANAGEMENT		3591
CONSTRUCTION MILESTONES		3591
Construction Milestones		3591
G1010	NTP Early works	0
K1000	NTP Pumping Plant Works	0
A1000	NTP - Overall Construction Project	0
E1000	NTP Reach 2	0
C1000	NTP Reach 4	0
J1000	NTP Southern Forebay	0
D1000	NTP Reach 3	0
F1010	NTP - Reach 1	0
G1000	NTP Intake 5	0
B1000	NTP Reach 5	0
G9010	NTP Intake 3	0
I1000	NTP Intermediate overlays	0
G1020	NTP South Delta Connection Strucutres	0
B9000	Reach 5 Complete	0
F9002	Reach 1 Complete	0
G9020	Intake 5 Complete	0
D9000	Reach 3 Complete	0
J9000	Southern Forebay Complete	0
E9000	Reach 2 Complete	0
G9000	Intake 3 Complete	0
K9000	Pumping Plant Complete	0
G1030	South Delta Connection Structures Complete	0
C9000	Reach 4 Complete	0
I1010	NTP Final overlays	0
Z9000	Project Snagging	0
Z9010	Construction Completion	0
CO.EW CONSTRUCTION EARLY WORKS		3425
ROAD WORKS		3425
NORTH ROAD WORKS		3425
MOB/FACILITIES NORTH		95
771002020-Contractor Site Management & Facilities - East - N		95
771003000 - Mobilization Both North		80
771003020-Mobilization - East - North		25
PARK AND RIDES		167
771310000 - Employee Park & Rides		54
771311000-Employee Park & Ride - Byron & Bethany - Both		17
771312000-Employee Park & Ride - Flag City - Both		11
771313000-Employee Park & Ride - I-5 & Charter Way - Both		12
771314000-Employee Park & Ride - Rio Vista - Both		18
771315000-Employee Park & Ride - Hood Franklin - Both		155
ACCESS TO INTAKES		201
771120000 - Hood Franklin Road Widening		5
771130000-Intakes Access Road - Both		15



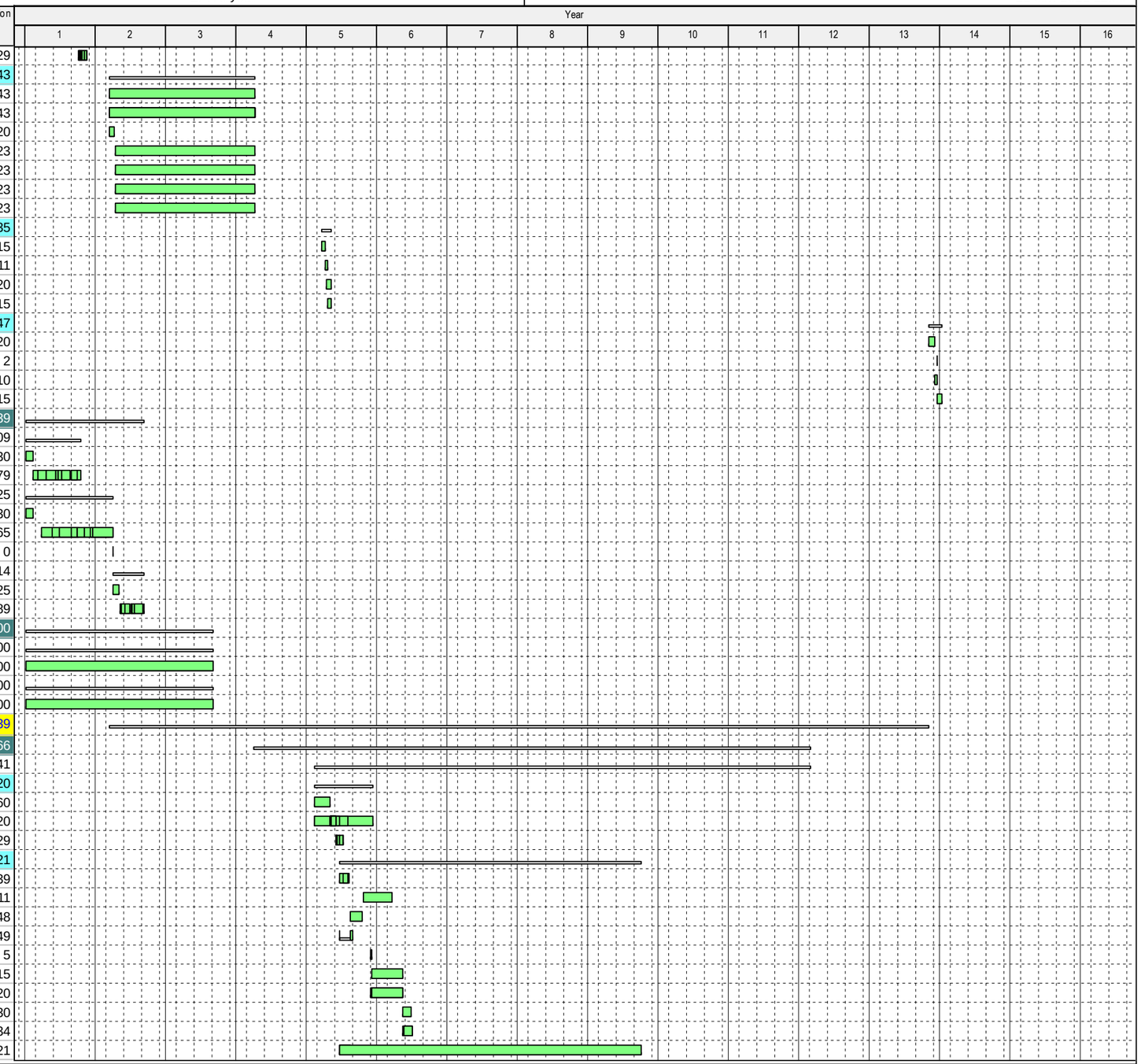
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	771150000 - C-E-5 Intake Access Road	55
	771460000 - Lambert Road Widening	38
	771840000 - Intake #3	48
	771860000-Intakes - SR160 - Both	15
	ACCESS TO TWIN CITIES	287
	771420000 - Dierrsen Road Paving	42
	771430000 - Franklin Blvd Improvements at Dierrsen	44
	771470000 - Twin Cities Road Widening (East)	36
	ACCESS TO N MID DELTA	44
	771710000-New Hope Tract Road - East	9
	771730000-Highway 12 /Terminous Tract Widening - East	21
	771770000-Canal Ranch Tract - East	23
	INTERMEDIATE OVERLAYS	66
	771006300-Mobilization - Intrm Overlay - Both	20
	771120000-Hood Franklin Road - Both	6
	771130000-Intakes Access Road - Both	9
	771140000-Bruns Way Widening - Both	2
	771150000-C-E-5 Intake Access Road - Both	3
	771350000-Western Farms Road - South - Both	2
	771420000-Dierrsen Road Paving - Both	3
	771430000-Franklin Blvd Improvements at Dierrsen - Both	3
	771460000-Lambert Road Widening - Both	7
	771470000-Twin Cities Road Widening (East) - Both	3
	771610000-E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
	771840000-Intake #3 Access Road - Both	1
	771990000-Intake #2 Access Road - Option	5
	FINAL OVERLAYS	74
	771006600-Mobilization - Final Overlay - Both	20
	771120000-Hood Franklin Road - Both	6
	771130000-Intakes Access Road - Both	9
	771140000-Bruns Way Widening - Both	2
	771150000-C-E-5 Intake Access Road - Both	3
	771210000-Southern Forebay Byron Highway New Interchange B	11
	771420000-Dierrsen Road Paving - Both	3
	771430000-Franklin Blvd Improvements at Dierrsen - Both	3
	771460000-Lambert Road Widening - Both	7
	771470000-Twin Cities Road Widening (East) - Both	3
	771610000-E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
	771840000-Intake #3 Access Road - Both	1
	771990000-Intake #2 Access Road - Option	5
	SOUTH ROAD WORKS	3398
	MOB/FACILITIES SOUTH	289
	771002025-Contractor Site Management & Facilities - East - S	259
	771003005-Mobilization - Both - South	20
	771003025-Mobilization - East - South	30
	ACCESS TO S MID DELTA	213
	771820000-Upper Jones Tract Road - East	16
	771830000-Lower Roberts Island Road - East	198
	771870000-Kings Island Access Road - East	3
	ACCESS TO SOUTHERN COMPLEX	340
	771140000 - Bruns Way Widening	61
	771210000 - Southern Forebay Byron Highway New Interchange	229
	771340000 - Discovery Bay Blvd Access road	61



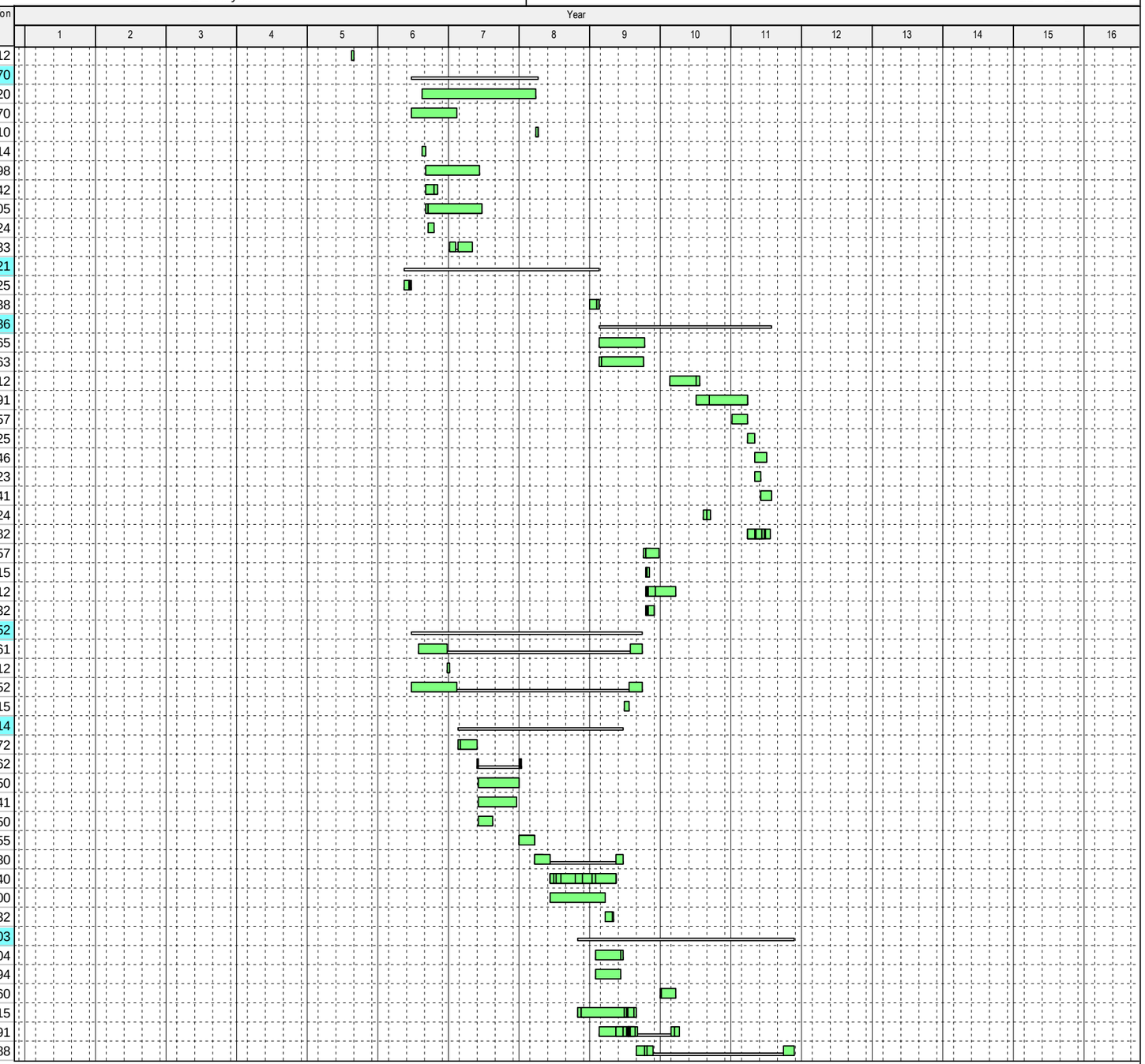
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
771350000	Western Farms Road	29
	ROAD MAINTENANCE	543
771005005	Contractors Overhead and Profit - Road Maint - E	543
771005220	Contractor Site Mngt & Facilities - Road Maint - E	543
771005320	Mobilization - Gravel Road Maintenance - East	20
771710000	New Hope Tract Road - East	523
771770000	Canal Ranch Tract - East	523
771820000	Upper Jones Tract Road - East	523
771870000	Kings Island Access Road - East	523
	INTERMEDIATE OVERLAYS	35
771006320	Mobilization - Intrm Overlay - East	15
771210000	Southern Forebay Byron Highway New Interchange B	11
771830000	Lower Roberts Island Road - East	20
771860000	Intakes - SR160 - Both	15
	FINAL OVERLAYS	47
771006620	Mobilization - Final Overlay - East	20
771350000	Western Farms Road - South - Both	2
771830000	Lower Roberts Island Road - East	10
771860000	Intakes - SR160 - Both	15
	RAIL WORKS	439
	NORTHERN GLANDEVILLE TRACT RAIL ACCESS	209
772003000	Mobilization	30
772017010	Dierssen Rail Yard	179
	SOUTHERN FOREBAY RAIL ACCESS	325
772003005	Mobilization - Both - South	30
772019	Byron Tract Rail Yard	265
772019050	Track - Both	0
	LOWER ROBERTS ISLAND RAIL WORKS	114
772003010	Mobilization - East	25
7720200	Lower Roberts Rail Yard	89
	POWER AND UTILITY EARLY WORKS	700
	POWER/ELECTRIC WORKS	700
601008	Electrical	700
	UTILITY LOGISTICS	700
	Utility Logistics	700
	CO.MAJOR CONSTRUCTION	3039
	IN INTAKES	2066
	IN INTAKE 3	1841
	Mobilization & Operations	220
113003000	Intake 3 Contractor Mobilization	60
113007010	Construct Temp Buildings & Utilities	220
113007100	Intake 3 Build Site Construction Roads	29
	Phase 1 Sitework	1121
113305100	Int 3 Ph1Site Clear & Grub	39
113305210	Int 3 Ph 1 DMM Soil Improvement	111
113305220	Int 3 Ph 1 DMM Cut-off Trench	48
113305230	Int 3 Ph 1 DMM Subcontract Mobe & Demobe	49
113305300	Int 3 Ph 1 Excavate Key Trenches	5
113305410	Int 3 Ph 1 Highway Temporary Fill from Reqd Exc	115
113305430	Int 3 Ph1 Moisture Condition Suitable Soil	120
113305510	Int 3 Ph1 Place Dike Fill from Reqd Excavation	30
113305520	Int 3 Ph 1 Moisture Condition Suitable Soil	34
113305600	Int 3 Ph1 Dewater Excavation W Deep Wells	1121



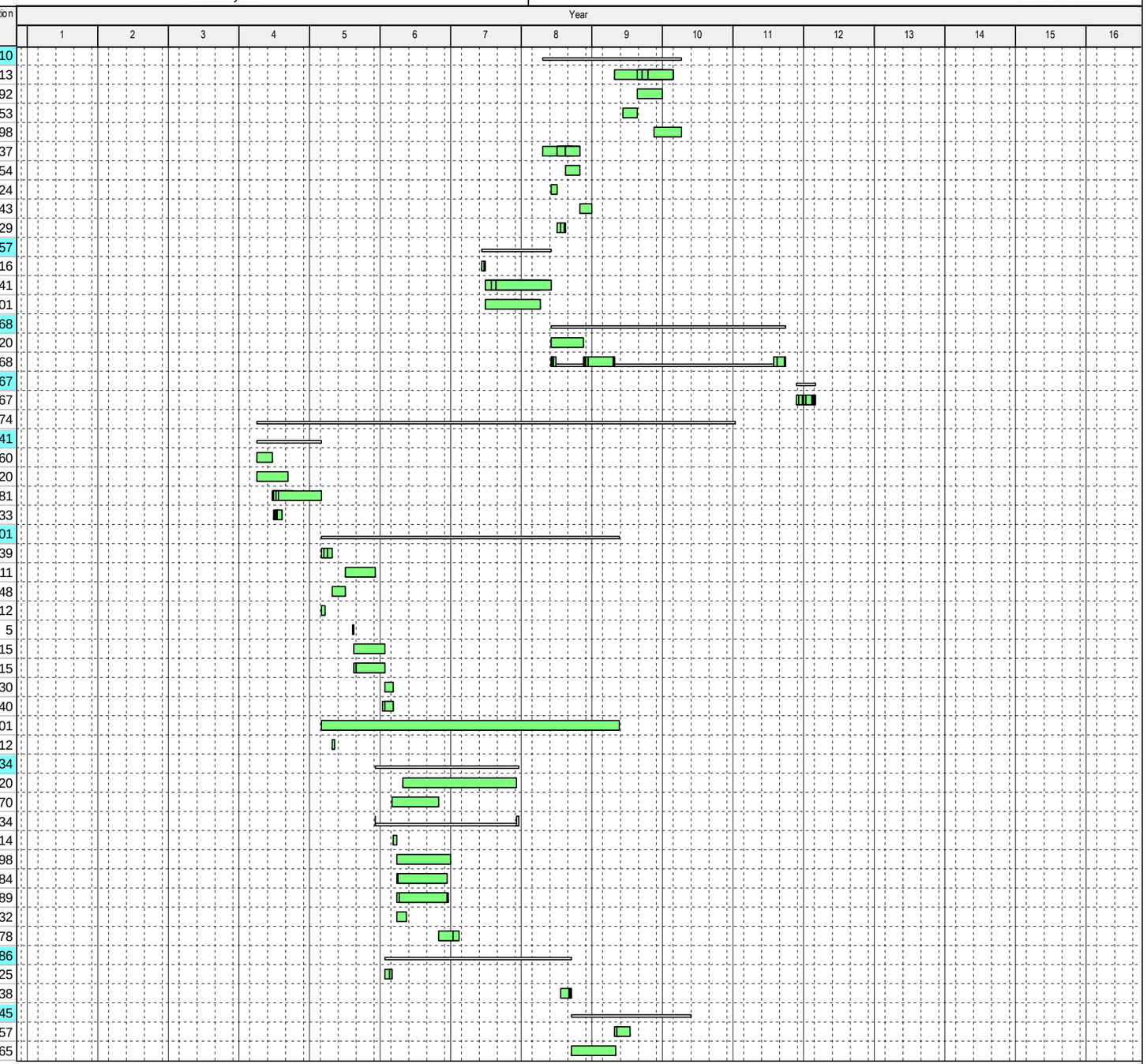
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113305800	Int 3 Ph 1 Temporary Plating	12
	Phase 2 Sitework	470
113306210	Int 3 Ph 2 DMM Soil Improvement	420
113306220	Int 3 Ph 2 DMM Cut-off Trench	170
113306230	Int 3 Ph 2 DMM Subcontract Mobe & Demobe	10
113306300	Int 3 Ph 2 Excavate Key Trenches	14
113306510	Int 3 Ph 2 Fills from Required Excavation	198
113306520	Int 3 Ph 2 Fills From Borrow	42
113306530	Int 3 Ph 2 Moisture Condition Suitable Soil	205
113306700	Int 3 Ph 2 Temporary Plating	24
113322300	H Piles in DMM Wall	83
	Roads	721
113305900	Intake 3 Pave Temporary Highway 160	25
113306800	Int 3 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	636
113309120	Int 3 Ph 3 Embankment Fill from Site Excavation	165
113309130	Int 3 Ph 3 Moisture Condition Soil	163
113309140	Int 3 Ph3 Excavate Unsuitable to Spoil	112
113309150	Int 3 Ph3 Final Grade and Invert Rock	191
113309160	Int 3 Ph3 Final Grade and Road Plating	57
113309200	Int 3 Ph 3 Dredge Pipe From Basin To Lagoons	25
113309320	Intake 3 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
113309330	Intake 3 Ph 3 Sed Drying Lagoons Underdrains	23
113309340	Intake 3 Ph 3 Sed Drying Lagoons Roller Compact	41
113309400	Intake 3 Hypalon Curtain	24
113309500	Intake 3 Final Utilities, Paving, Fence, S	82
113309600	Intake 3 Office & Vehicle Storage	57
113309700	Intake 3 Fueling Station	15
113309800	Intake 3 Substation & Elect Distribution	112
113309900	Intake 3 Drop Gate/Stoplog Storage Enclosure	32
	Cofferdams	852
113307100	Intake 3 HZ975D-14/AZ18 Front Combi Wall Coffer	561
113307200	Intake3 Fender System	12
113307300	Intake 3 PZC26 Back Wall Cofferdam	852
113307400	Dredging in front of Cofferdam	15
	Intake Structure	614
113313000	Intake 3 Excavate Inside Intake Coffertam	72
113315100	Mobilize Drill Spread	162
113315210	Drill & Case Pier Shafts	150
113315220	Reinforcing Steel	141
113315230	Place Fill Concrete	50
113317000	Intake 3 Tremie Concrete Under Intake Structure	55
113319000	Intake 3 Dewater Intake C'dam & Place Xbra	330
113321100	Intake 3 Place Concrete	240
113321200	Furnish And Place Rebar	200
113321300	Intake 3 Concrete Fill (flowable concrete)	32
	Intake MEP	803
113323000	Intake 3 8'x8' Roller Gates, Guides & Opera	104
113324000	Intake 3 8'x8' Stoplog Gates, Guides	94
113324500	Intake 3 Box Culvert Stoplogs and Guides	60
113325000	Intake 3 Fish Screens, Panels, & Cleaning	215
113327000	Intake 3 MEP	291
113329000	Intake 3 Finish Out	588



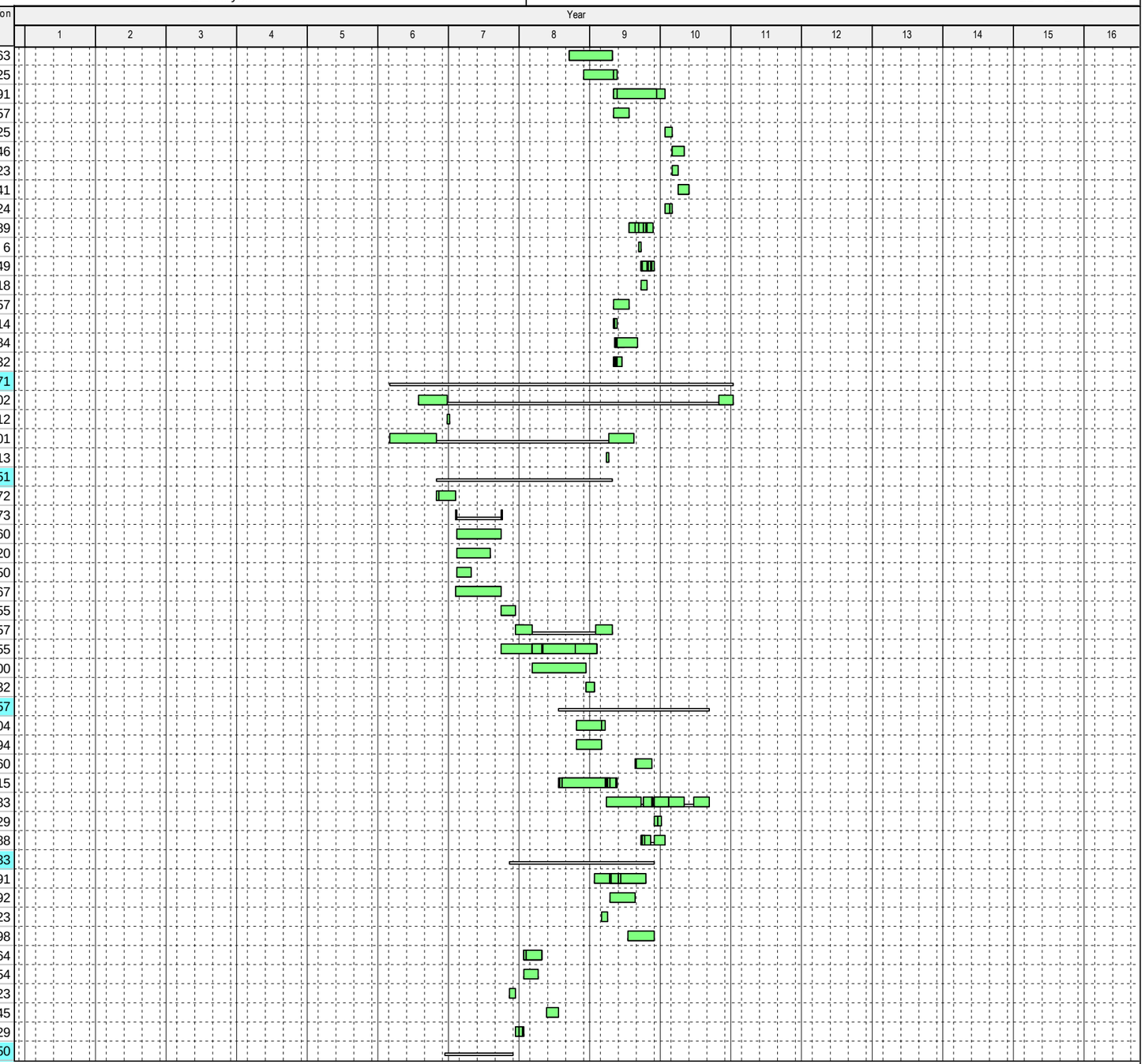
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	Box Culverts	510
	113322100 - Place Box Concrete 1st 170 ft	213
	113322200 - Furnish And Place Box Rebar 1st 170 ft	92
	113322300 - Excavate for Box 1st 170 ft	53
	113322400 - Backfill for Box 1st 170 ft	98
	113322500 - Place Box Concrete Gate Shaft & Outlet	137
	113322600 - Place Box Rebar Gate Shaft & Outlet	54
	113322700 - Excavate for Box Gate Shaft & Outlet	24
	113322800 - Backfill over Box Gate Shaft & Outlet	43
	113322900 - 24" Foundation Piles under Gate Structures	29
	Sedimentation Basins	257
	113355000 - Intake 3 Sediment Basin Drive Piles	16
	113357100 - Place Concrete	241
	113357200 - Furnish And Place Rebar	201
	Sedimentation Basins MEP	868
	113359000 - Intake 3 Sediment Basin Radian Gates & Stoplogs	120
	113361000 - Intake 3 Sediment Basin MEP & Finish Work	868
	Site Restoration	67
	Intake No. 3 - Site Restoration	67
	IN INTAKE 5	1774
	Mobilization & Operations	241
	115003000 - Intake 5 Contractor Mobilization	60
	115005060 - Intake 5 Personnel Mobe Expense	120
	115007010 - Construct Temporary Buildings & Utilities	181
	115007100 - Intake 5 Build Site Construction Roads	33
	Phase 1 Sitework	1101
	115205100 - Int 5 Ph1 Clear and Grub	39
	115205210 - Int 5 Ph 1 DMM Soil Improvement	111
	115205220 - Int 5 Ph 1 DMM Cut-off Trench	48
	115205230 - Int 5 Ph 1 DMM Subcontract Mobe & Demobe	12
	115205300 - Int 5 Ph 1 Excavate Key Trenches	5
	115205410 - Int 5 Ph 1 Highway Temporary Fill from Reqd Exc	115
	115205430 - Int 5 Ph1 Moisture Condition Suitable Soil	115
	115205510 - Int 5 Ph1 Place Dike Fill from Reqd Excavation	30
	115205520 - Int 5 Ph 1 Moisture Condition Suitable Soil	40
	115205600 - Int 5 Ph 1 Dewater Excavation with Deep Wells	1101
	115205800 - Int 5 Ph 1 Temporary Plating	12
	Phase 2 Sitework	534
	115206210 - Int 5 Ph 2 DMM Soil Improvement	420
	115206220 - Int 5 Ph 2 DMM Cut-off Trench	170
	115206230 - Int 5 Ph 2 DMM Subcontract Mobe & Demobe	534
	115206300 - Int 5 Ph 2 Excavate Key Trenches	14
	115206510 - Int 5 Ph 2 Fills from Required Excavation	198
	115206530 - Int 5 Ph 2 Moisture Condition Suitable Soil	184
	115206540 - Int 5 Ph 2 Place Dike Core Fill from Borrow	189
	115206700 - Int 5 Ph 2 Place Temporary Gravel Plating	32
	115222300 - H Piles in DMM Wall	78
	Roads	686
	115205900 - Int 5 Ph 2 Pave Temporary Highway 160	25
	115206800 - Int 5 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	445
	113309600 - Intake 3 Office & Vehicle Storage	57
	115209120 - Int 5 Ph 3 Embankment Fill from Site Excavation	165



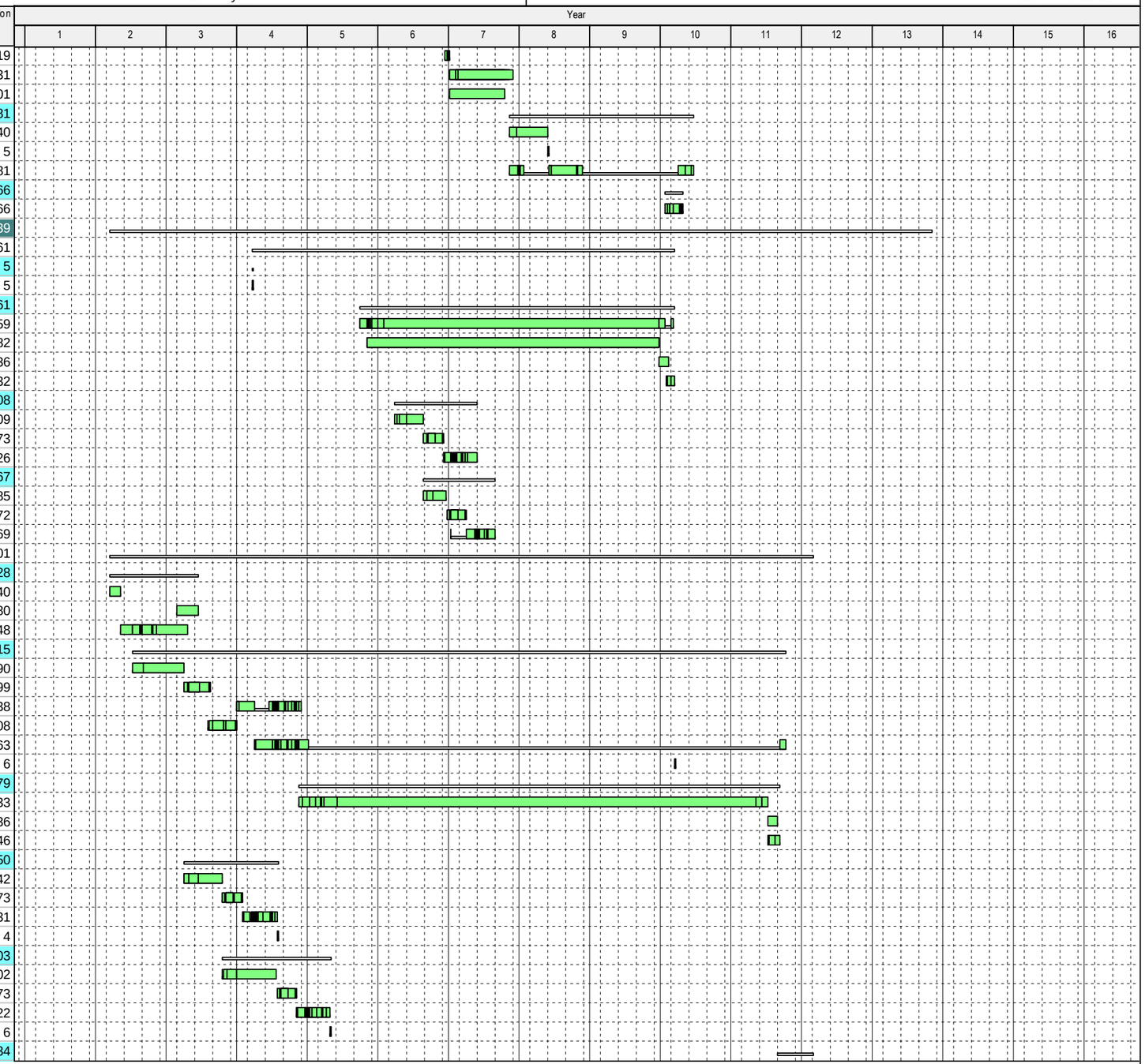
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
115209130	Int 5 Ph 3 Moisture Condition Soil	163
115209140	Int 5 Ph3 Excavate Unsuitable to Spoil	125
115209150	Int 5 Ph3 Final Grade and Invert Rock	191
115209160	Int 5 Ph3 Place Area Pllating	57
115209200	Int 5 Ph 3 Dredge Pipe From Basin To Lagoons	25
115209310	Int 5 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
115209320	Int 5 Ph 3 Sed Drying Lagoons Underdrains	23
115209330	Int 5 Ph 3 Sed Drying Lagoons Roller Compact	41
115209400	Int 5 Ph 3 Hypalon Curtain	24
115209500	Int 5 Ph3 Final Utilities, Paving, Fence, S	89
115209610	Place Gravel Foundation Bedding	6
115209620	Place Concrete Slab	49
115209630	Furnish And Place Rebar	18
115209640	Building Construction And Equipment	57
115209700	Fueling Station	14
115209800	Intake 5 Substation & Electrical Distribution	84
115209900	Intake 5 Drop Gate/Stoplog Storage Enclosure	32
Cofferdams		1271
115207100	Intake 5 HZ975D-14/AZ18 Front Combi Wall Coffer	802
115207200	Intake5 Fender System	12
115207300	Intake 5 PZC26 Back Wall Cofferdam	901
115207400	Dredge in front of Cofferdam	13
Intake Structural		651
115213000	Intake 5 Excavate Inside Intake Coffertam	72
115215100	Mobilize & Demobilize Drill Spread	173
115215210	Drill & Case As Reqd Pier Shafts	160
115215220	Reinforcing Steel	120
115215230	Concrete	50
115215240	Pier Shaft Contractor Profit, G&A, & Conti	167
115217000	Intake 5 Tremie Concrete Under Intake Stru	55
115219000	Intake 5 Dewater Intake C'dam & Place Xbra	357
115221100	Intake 5 Place Concrete	355
115221200	Furnish and Place Rebar	200
115221300	Intake 5 Place Fill Concrete (flowable concrete)	32
Intake MEP		557
115223000	Intake 5 8'x8' Roller Gates, Guides & Opera	104
115224000	Intake 5 8'x8' Stoplog Gates, Guides	94
115224500	Intake 5 Box Culvert Stoplogs and Guides	60
115225000	Intake 5 Fish Screens, Panels, & Cleaning	215
115227100	Intake 5 MEP	383
115227600	Intake 5 Gantry Cranes & Rail	29
115229000	Intake 5 Finish Out	88
Box Culverts		533
115222100	Place Box Concrete 1st 170 ft	191
115222200	Furnish And Place Box Rebar 1st 170 ft	92
115222300	Excavate for Box 1st 170 ft	23
115222400	Backfill for Box 1st 170 ft	98
115222500	Place Box Concrete Gate Shaft & Outlet	64
115222600	Place Box Rebar Gate Shaft & Outlet	54
115222700	Excavate for Box Gate Shaft & Outlet	23
115222800	Backfill over Box Gate Shaft & Outlet	45
115222900	24" Foundation Piles under Gate Structures	29
Sedimentation Basins		250



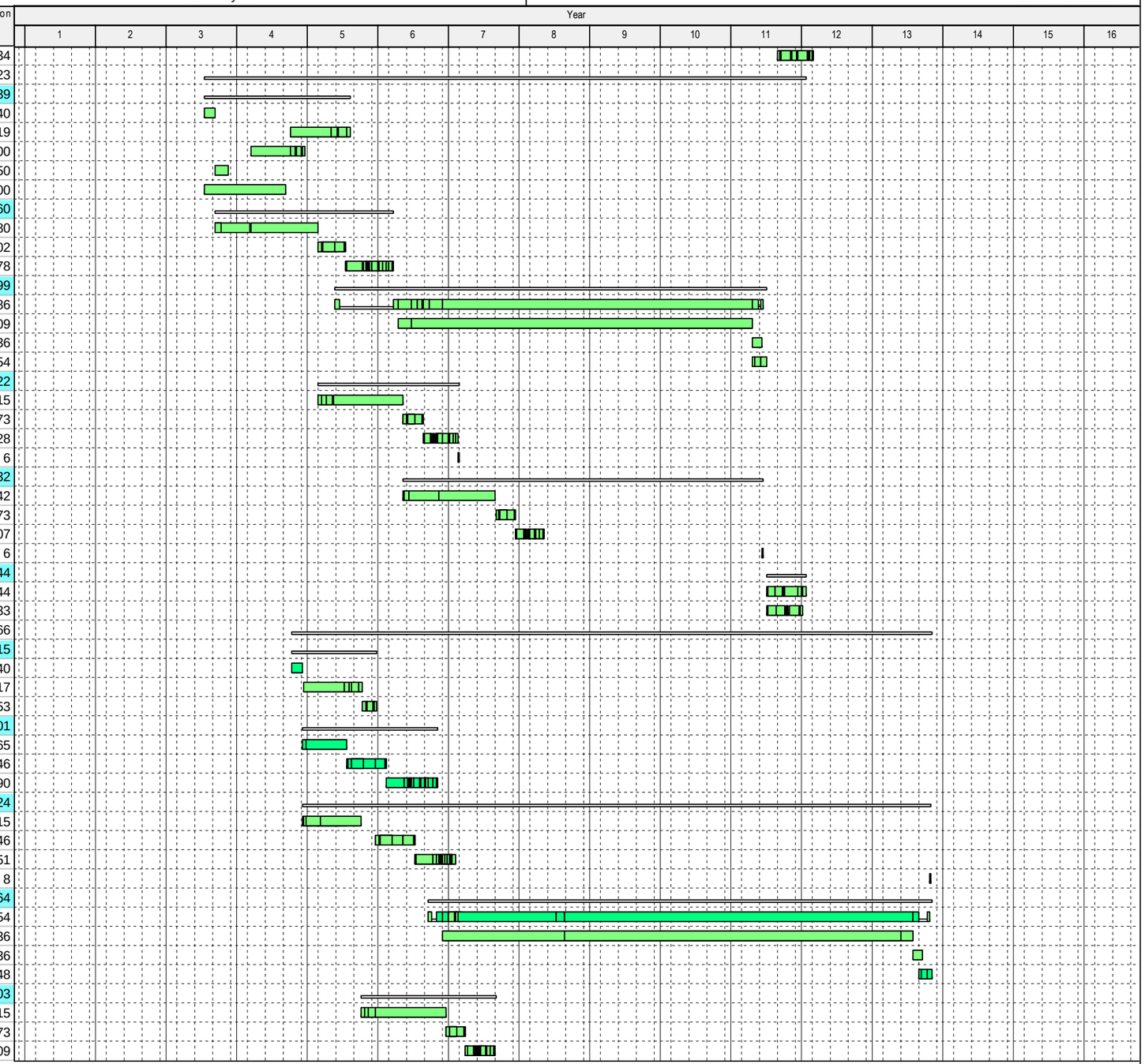
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	115255000 - Intake 5 Sediment Basin Drive Piles	19
	115257100 - Place Concrete	231
	115257200 - Furnish And Place Rebar	201
	Sedimentation Basin MEP	681
	115259000 - Intake 5 Sediment Basin Radial Gates & Stoplogs	140
	115261000 - Intake 3 Sediment Basin MEP & Finish Work	5
	115261000 - Intake 5 Sediment Basin MEP & Finish Work	681
	Site Restoration	66
	Intake No. 5 - Site Restoration	66
	TUNNELS AND SHAFTS	3039
	REACH 1	1561
	MOBILIZATION & INDIRECTS	5
	21100425 - Reach 1 Mobilize & Setup Main Construction Site	5
	TUNNEL REACH 1	1161
	21300440 - Reach 1 Tunnel	1159
	21300440 - Reach 1 Tunnel Support	1082
	21300445 - Reach 1 Remove TBM	36
	21300460 - Reach 1 Remove Tunnel Utilities & Cleanup	32
	INTERMEDIATE SHAFT INTAKE 5 REACH 1	308
	216005 - Reach 1 Work Area for Pass through Shaft - Intake 5	109
	21600530 - Reach 1 D'Wall for Pass through Shaft - Intake 5	73
	21600535 - Reach 1 Excavate/build Pass through Shaft - Intake 5	126
	RECEPTION SHAFT INTAKE 3 REACH 1	267
	214005 - Reach 1 Work Area for Reception Shaft - Intake 3	85
	21400510 - Reach 1 D'Walls for Reception Shaft - Intake 3	72
	21400515 - Reach 1 Excavate/build Reception Shaft - Intake 3	169
	REACH 2	2601
	MOBILIZATION & INDIRECTS	328
	22100515 - Reach 2/1 Mobilize & Setup Site	40
	22200516 - Reach 2/1 Ring Levee around RTM	80
	22200522 - Reach 2 Work site area & segment pad	248
	DOUBLE LAUNCH SHAFT REACH 2/1	2415
	222005 - Reach 2/1 Work Area for Launch Shafts	190
	22200519 - Reach 2 D'Walls for Launch shaft	99
	22200520 - Reach 2 Excavate/build Launch Shaft	238
	22200525 - Reach 1 D'Wall for Launch shaft	108
	22200530 - Reach 1 Excavate/build Launch Shaft	1963
	22200531 - Reach 2/1 Launch Shaft Finishing	6
	TUNNEL REACH 2	1779
	22300530 - Reach 2 Tunnel	1733
	22300535 - Reach 2 Remove TBM	36
	22300550 - Reach 2 Remove Tunnel Utilities & Cleanup	46
	MAINTAINANCE SHAFT NEW HOPE TRACT	350
	225006 - Reach 2 Work Area for Maint Shaft - New Hope Tract	142
	22500610 - Reach 2 D'Walls for Maint Shaft - New Hope Tract	73
	22500615 - Reach 2 Excavate/build Maint Shaft - New Hope Tract	131
	22500616 - Reach 2 Maint Shaft Finishing - New Hope Tract	4
	MAINTAINANCE SHAFT CANAL ROAD	403
	226006 - Reach 2 Work Area for Maint Shaft - Canal Road	202
	22600625 - Reach 2 D'Walls for Maint Shaft - Canal Road	73
	22600630 - Reach 2 Excavate/build Maint Shaft - Canal Road	122
	22600635 - Reach 2 Maint Shaft Finishing - Canal Island	6
	Site Restoration	134



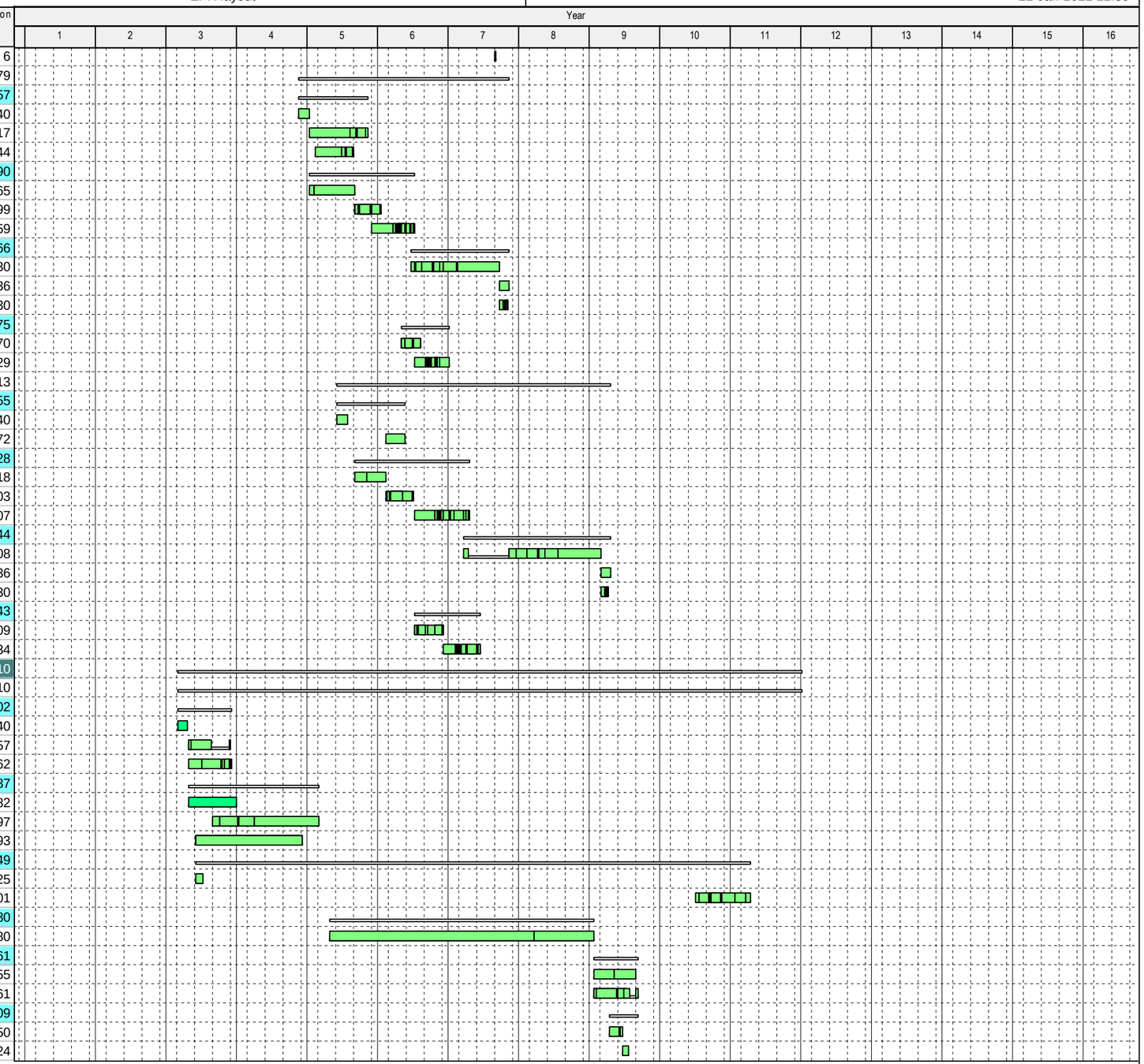
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	Glanville Tract - Launch Shaft Site Restoration	134
	REACH 3	2223
	MOBILIZATION & INDIRECTS	539
	23100005 - Reach 3 Mobilize & Setup Main Site	40
	23100006 - Reach 3 Work site RTM Area preparation	219
	23100006 - Reach 3 Work site segment pad	200
	23100007 - Reach 3 Work site Levee improvements	50
	23300050 - Reach 3 Tunnel Plant & Equipment	300
	LAUNCH SHAFT LOWER ROBERTS ISLAND	660
	232000 - Reach 3 Work Area for Launch Shaft - Lower Roberts Island	380
	23200009 - Reach 3 D'Walls for Launch Shaft - Lower Roberts Island	102
	23200010 - Reach 3 Excavate/build Launch Shaft - Lower Roberts Island	178
	TUNNEL REACH 3	1599
	23300020 - Reach 3 Tunnel	1586
	23300020 - Reach 3 Tunnel Support	1309
	23300025 - Reach 3 Remove TBM	36
	23300040 - Reach 3 Remove Tunnel Utilities & Cleanup	54
	MAINTAINANCE SHAFT KINGS ISLAND	522
	234000 - Reach 3 Work Area for Maint shaft - Kings island	315
	23400096 - Reach 3 D'Wall for Maint Shaft - Kings Island	73
	23400097 - Reach 3 Excavate/build Maint Shaft - Kings Island	128
	23400098 - Reach 3 Shaft Finishing - Kings Island	6
	RECEPTION SHAFT TERMINUS TRACT	1332
	234000 - Reach 3(4) Work Area for Reception Shaft - Terminus Track	342
	23400014 - Reach 3(4) D'Wall for Reception Shaft - Terminus Track	73
	23400015 - Reach 3 (4) excavate/build reception Shaft - Terminus Track	107
	23400016 - Reach 3(4) Reception Shaft Finishing - Terminus Track	6
	Site Restoration	144
	Bouldin Island - Launch Shaft Site Restoration	144
	Lower Roberts Island - Launch Shaft Site Restore	133
	REACH 4	2366
	MOBILIZATION & INDIRECTS	315
	24100115 - Reach 4 Mobilize & Setup Site - SF North	40
	24100116 - Reach 4 RTM site preperation - SF North	217
	24200186 - Reach 4 Work Area Segment pad - SF North	53
	LAUNCH SHAFT SF NORTH	501
	242001 - Reach 4 Work Area for Launch Shaft - South Forebay	165
	24200119 - Reach 4 D'walls for Launch Shaft - South Forebay	146
	24200120 - Reach 4 Excavate/build Launch Shaft - South Forebay	190
	WORK SHAFT BYRON TRACT	2324
	242001 - Reach 4 Work Area for Work Shaft - Byron Tract	215
	24200187 - Reach 4 D'Wall for Work Shaft - Byron Tract	146
	24200189 - Reach 4 Excavate/build Work Shaft - Byron Tract	151
	24210100 - Reach 4 Work Shaft Finishing - Byron Tract	8
	TUNNEL REACH 4	1864
	24300125 - Reach 4 Tunnel	1854
	24300125 - Reach 4 Tunnel Support	1736
	24300130 - Reach 4 Remove TBM	36
	24300145 - Reach 4 Remove Tunnel Utilities & Cleanup	48
	MAINTAINANCE SHAFT UPPER JONES TRACT	503
	234000 - Reach 3 Work Area for Maint shaft - Upper Jones Tract	315
	23400096 - Reach 3 D'Wall for Maint Shaft - Upper Jones Tract	73
	23400097 - Reach 3 Excavate/build Maint Shaft - Upper Jones Tract	109



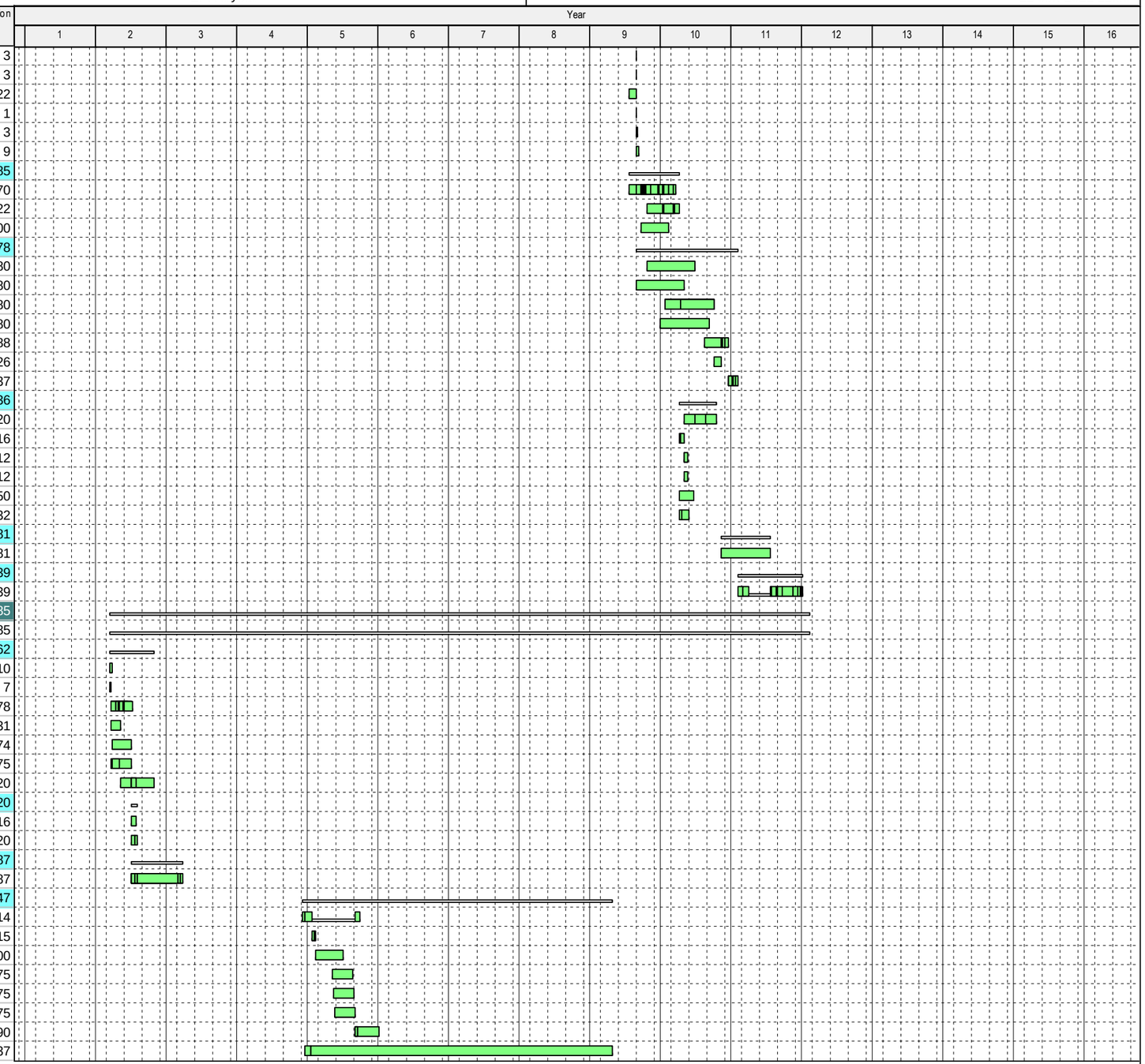
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
23400098	Reach 3 Shaft Finishing - Upper Jones Tract	6
REACH 5E		779
MOBILIZATION & INDIRECTS		257
25100630	Reach 5 Mobilize & Setup Site	40
25100631	Reach 5 RTM site preperation	217
25200635	Reach 5 Work Area Segment pad	144
LAUNCH SHAFT REACH 5E		390
25200635	Reach 5E Launch Shaft Work Area	165
25200640	Reach 5E D'Wall for Launch Shaft	99
25200645	Reach 5E Excavate/build Launch Shaft	159
TUNNEL REACH 5E		366
25300660	Reach 5E Tunnel	330
25300665	Reach 5E Remove TBM	36
25300680	Reach 5E Remove Tunnel Utilities & Cleanup	30
RECEPTION SHAFT REACH 5E		175
25400650	Reach 5E D'Wall Reception Shaft	70
25400651	Reach 5E Excavate/build Reception Shaft	129
REACH 5W		1013
MOBILIZATION & INDIRECTS		255
26100730	Reach 5W Mobilize & Setup Site	40
26200735	Reach 5W Launch Shaft Work Area	72
LAUNCH SHAFT REACH 5W		428
26200735	Reach 5W Launch Shaft Work Area	118
26200740	Reach 5W D'Wall for Launch Shaft	103
26200745	Reach 5W Excavate/build Launch Shaft	207
TUNNEL REACH 5W		544
26300760	Reach 5W Tunnel	508
26300765	Reach 5W Remove TBM	36
26300780	Reach 5W Remove Tunnel Utilities & Clean Up	30
RECEPTION SHAFT REACH 5W		243
26400650	Reach 5W D'Wall for Reception Shaft	109
26400751	Reach 5W Excavate/build Reception Shaft	134
FR FOREBAY		2310
SOUTHERN FOREBAY		2310
Mobilization & Overhead		202
331003000	S Forebay Contractor Mobilization	40
331005080	Job Site Plant	157
331005100	Site Prep Plant	162
Foundations		487
332005000	Southern Forebay Clear & Grub/Demolition	182
332035100	Dewater Embankment Foundation	397
332035125	Foundation Excavation Pad Fill for S Forbay	393
Material Handling		2049
332035100	Dewater Embankment Foundation	25
332035300	Rip Rap	201
East Embankment		980
332035260	Preload East Embankment	980
DMM Wall		161
332035159	DMM Walls	155
332050100	S Forebay Outlet Struct Sitework	161
Piles		109
332050210	Provide Foundation Piles	50
332050220	Drive Steel Pipe Piles	24



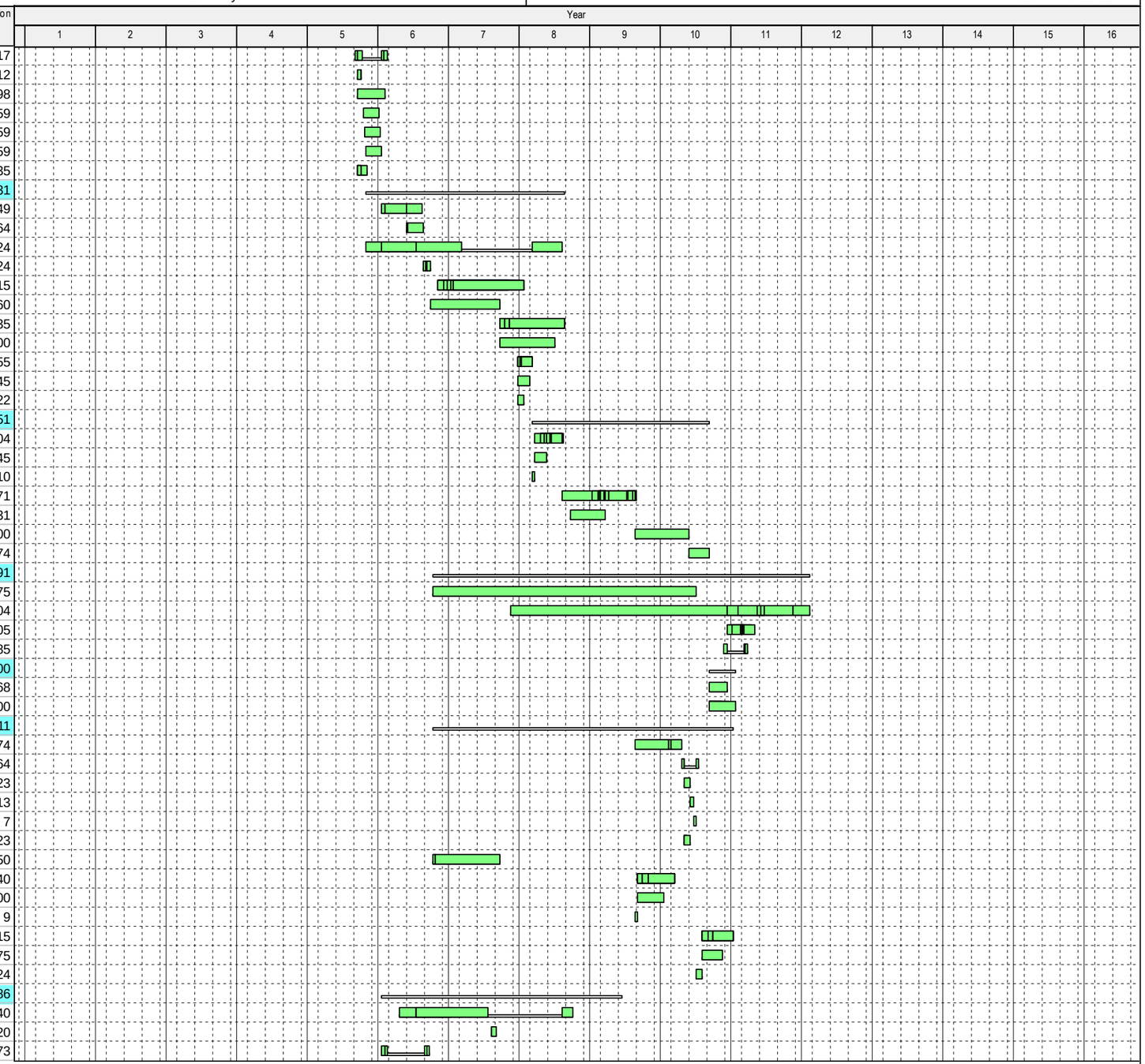
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
332050240	Conc Placing Crew	3
332050250	Conc Plant & Ops	3
332050260	Rebar Cages	22
332050280	Conc Placing Crew	1
332050290	Conc Plant & Ops	3
332050300	Cure & Cleanup	9
	Spillway	185
333010000	New Spillway Earthwork	170
333020020	Concrete Work	122
333020030	Rebar	100
	Outlet Structure	378
333005010	S Forebay Outlet Slab Concrete	180
333005020	S Forebay Outlet Slab Rebar	180
333005030	S Forebay Outlet Wall Concrete	180
333005040	S Forebay Outlet Wall Rebar	180
333005050	S Forebay Outlet Roof Concrete	88
333005060	S Forebay Outlet Roof Rebar	26
333005061	SF Outlet Struct Conc, Matt	37
	Gates & MEP	136
333005080	S Forebay Inlet Drop Gates	120
333005090	S Forebay Inlet Gantry Crane	16
333005100	S Forebay Inlet Trash Rack	12
333005120	Intermediate Forebay Inlet Misc. Metal	12
333005130	Intermediate Forebay Inlet Misc. Electrica	50
333005140	Intermediate Forebay Inlet Piping	32
	Site Finishes	181
332050010	SFB Dike Hydroseed & Fencing	181
	Site Restoration	239
	Southern Forebay Site Restoration	239
	PP PUMPING PLANT	2585
	PUMPING PLANTS	2585
	Mobilization & Overhead	162
441003000	Mobilize Pump Plant Contractor	10
441009010	Place Foundation Gavel Bedding	7
441009020	Place Foundation Concrete	78
441009030	Furnish And Place Rebar	31
441009040	Contractors Office	74
441009050	Shops & Warehouse	75
441009060	Other Structures	120
	Sitework	20
442005020	Clear & Grub/Demolition BT Area	16
442005100	Temporary Plating	20
	Ground Improvements (DMM)	187
442020000	BT Pump Plant Ground Improvement(DMM)	187
	BT Pump Plant Diaphragm Walls	1147
443005010	Slurry Wall Mobe and Demobe (Exterior Diaphram Walls)	214
443005040	Temporary Plating (Ext, Diaph. Walls)	15
443005050	Set Guide Walls (Ext. Diaph. Walls)	100
443005060	Excavate (Hydromill) Slurry Trench (Ext. Diaph. Walls)	75
443005070	Reinforcing Steel (Ext. Diaph. Walls)	75
443005080	Concrete (Ext. Diaph Walls)	75
443005090	Slurry Wall Contractor Overhead And Profit (Ext Diaph. Walls)	90
443005110	Deep Wells	1137



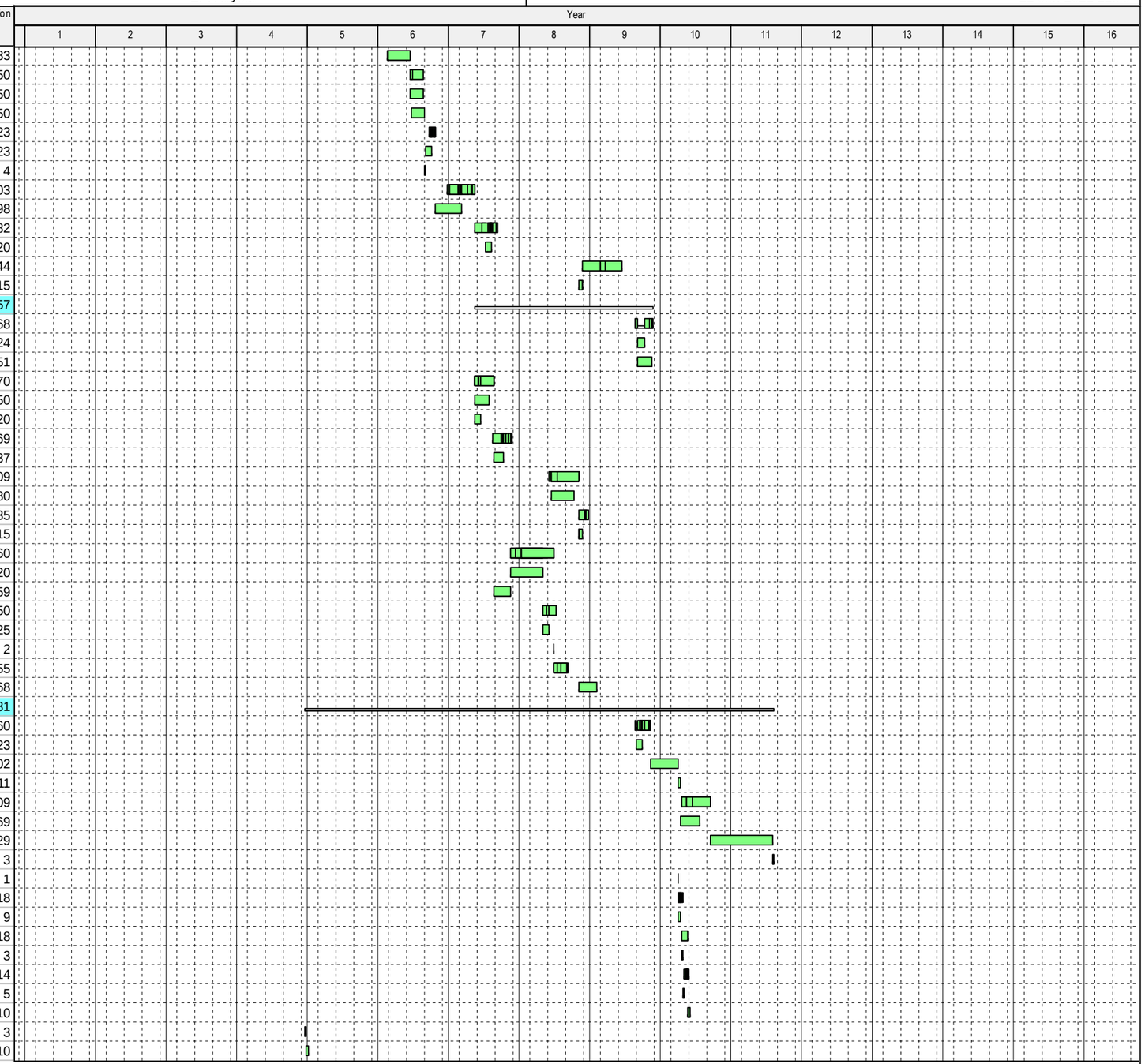
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
443010010	Slurry Wall Mobe & Demobe (Int. Diaph Walls)	117
443010040	Temporary Plating (Int. Diaph Walls)	12
443010050	Set Guide Walls (Int. Diaph Walls)	98
443010060	Excavate (Hydromill) Slurry Trench (Int. Diaph Walls)	59
443010070	Reinforcing Steel (Int. Diaph. Walls)	59
443010080	Concrete (Int. Diaph. Walls)	59
443010090	Slurry Wall Contractor Overhead And Profit (Ext. Diaph Walls)	35
	Pump Plant Foundation Slabs, Walls, Pump Can Concrete	731
442025000	BT Pump Plant Exc. Pump Inside Dia. Wall	149
442035000	BT Pump Plant Exc. Wet Well -84 to 28.0	64
442040000	Dewater & Install Bracing	724
443014999	BT Pump Plant Tremie Conc. Bottom Slab	24
443015010	Place Concrete (Pump Can Concrete)	315
443015020	Furnish And Place Rebar (Pump Can Concrete)	260
443020010	Place Concrete (Exterior Struc. Walls)	235
443020020	Furnish And Place Rebar (exterior Struc. Walls)	200
443025010	Place Concrete (Slab at El.-77.0)	55
443025020	Furnish And Place Rebar (Slab at El.-77.0)	45
443025030	Foundation Prep (Slab at El.-77.0)	22
	Pump Plant Operation Deck & Structure Above EL. 2950	651
443030010	Interior Walls to OP Deck Place Concrete	104
443030020	Interior Walls Furnish And Place Rebar	45
443030030	Interior Walls Foundation Prep	10
443035010	Operations Deck Place Concrete	271
443035020	Operations Deck Furnish And Place Rebar	131
443070000	PP Structure Above El. 2950	200
443080000	Pump Plant Roof Structure	74
	Structure Misc Metals & MEP	1391
443040000	Pump Plant Miscellaneous Metals	975
443045000	1123 cfs Pumps & Operators	1104
443050000	563 cfs Pumps & Operators	105
443051000	Wet Well Dewatering Pumps	85
	Pump Plant MEP	100
443075000	Pump Plant Overhead Crane	68
443085000	Pump Plant Structure Finish Out	100
	Dissipation Slab	1111
442050000	Pump Plant Exc. For Splash Basin	174
442055010	Mobilize & Demobe Drill Spread	64
442055030	Drill & Case As Reqd Pier Shafts	23
442055040	Reinforcing Steel - CDIH Piers	13
442055050	Concrete - CDIH Piers	7
442055060	Pier Shaft Contractor Profit, G&A, & Conti	23
443055000	Piping to Splash Basin	250
443060010	PP Pipe Encasement Place Concrete	140
443060020	PP Pipe Encasement Furnish And Place Rebar	100
443060030	PP Pipe Encasement Foundation Prep	9
443065010	Splash Pad Place Concrete	115
443065020	Splash Pad Furnish And Place Rebar	75
443065030	Splash Pad Foundation Prep	24
	Wet Well	886
442045000	Dewater & Install Bracing in Wet Well Section	640
442065000	Excavate WetWell Inlet Conduit	20
444005010	Wet Well Slurry Wall Mobe & Demobe	173



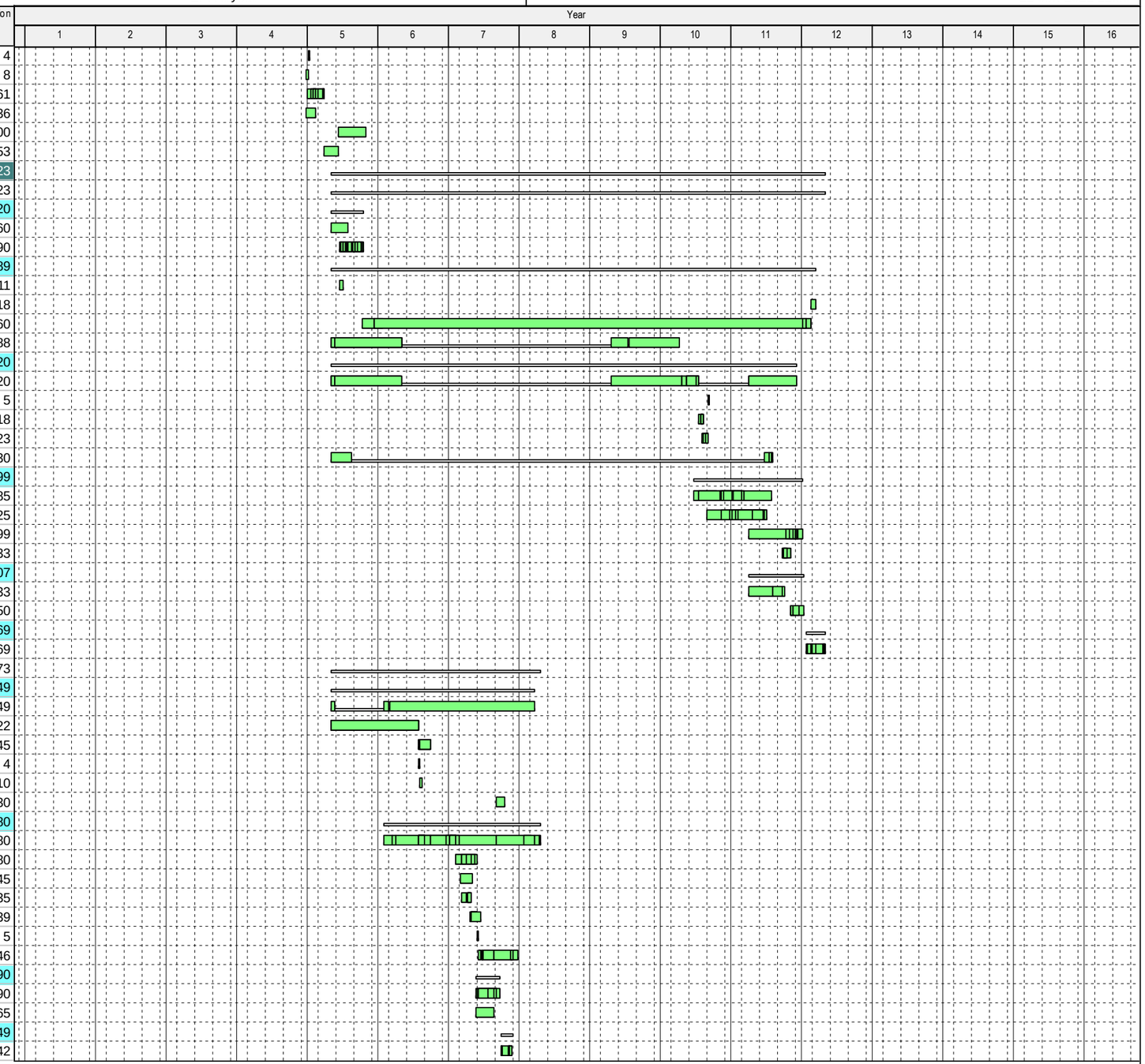
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
444005050	Wet Well Slurry Wall Set Guide Walls	83
444005060	Wet Well Excavate (Hydromill) Slurry Trench	50
444005070	Wet Well Reinforcing Steel	50
444005080	Wet Well Concrete	50
444010010	Wet Well Inlet Place Concrete (Bottom Slab)	23
444010020	Wet Well Inlet Furnish And Place Rebar (Bottom Slab)	23
444010030	Wet Well Inlet Foundation Prep (Bottom Slab)	4
444015010	Wet Well Inlet Place Concrete (Walls)	103
444015020	Wet Well Inlet Furnish And Place Rebar (Walls)	98
444020010	Wet Well Inlet Top Deck Place Concrete	82
444020020	Wet Well Inlet Top Deck Furnish And Place Rebar	20
444025010	Wet Well Inlet Top Deck Double Isolation Roller Gates	144
444025020	Wet Well Inlet Top Deck Double Isolation Gantry Crane	15
	Outlet Structure	657
442070000	Gravity Flow Outlet Structure Sheet Pile for Exc.	68
442071000	Remove Top 105' of Interior Wall	24
442080000	Excavation for Gravity Flow Structure	51
444030010	Place Concrete (Bottom Slab)	70
444030020	Furnish And Place Rebar (Bottom Slab)	50
444030030	Foundation Prep (Bottom Slab)	20
444035010	Place Concrete (Walls)	69
444035020	Furnish And Place Rebar (Walls)	37
444040010	Place Concrete (Top Slab)	109
444040020	Furnish And Place Rebar (Top Slab)	80
444050010	Gravity Flow Roller Gates	35
444050020	Gravity Flow Gantry Crane	15
444055010	Gravity Flow Structure Place Concrete	160
444055020	Gravity Flow Strucutre Furnish And Place Rebar	120
444055030	Gravity Flow Structure Foundation Prep	59
444060010	PP Outlet Retaining Wall Concrete	50
444060020	PP Outlet Retaining Wall Rebar	25
444060030	PP Outlet Retaining Wall Concrete	2
444061010	Slab & Walls Between PP & Launch Shaft Wall Concrete	55
444065000	PP Gravity Outlet Flow Structure Overhead Crane	68
	Ancilarry Buildings & Structures	1731
443090010	PP MCC/Electrical Building Foundation Slab	60
443090020	PP MCC/Electrical Building Furnish And Place Rebar	23
443090030	PP MCC/Electrical Building Building Construction And Equipment	102
443095010	PP Storage Area & Yard Place Foundation Gavel Bedding	11
443095020	PP Storage Area & Yard Place Foundation Slab Concrete	109
443095030	PP Storage Area & Yard Furnish And Place Rebar	69
443095040	PP Storage Area & Yard Building Construction And Equipment	229
443100020	PP Storage Area & Yard Place Gavel Bedding	3
443105010	Generator Building Place Foundation Gravel Bedding	1
443105020	Generator Building Place Foundation Concrete	18
443105030	Generator Building Furnish And Place Rebar	9
443105040	Generator Building Construction And Equipment	18
443106010	HVAC Yard Place Foundation Gravel Bedding	3
443106020	HVAC Yard Place Foundation Concrete	14
443106030	HVAC Yard Furnish And Place Rebar	5
443106040	HVAC Yard Equipment Install	10
443110010	Substation Excavate/Grade Foundation Slab	3
443110020	Substation Provide Foundation Piles (50 LF)	10



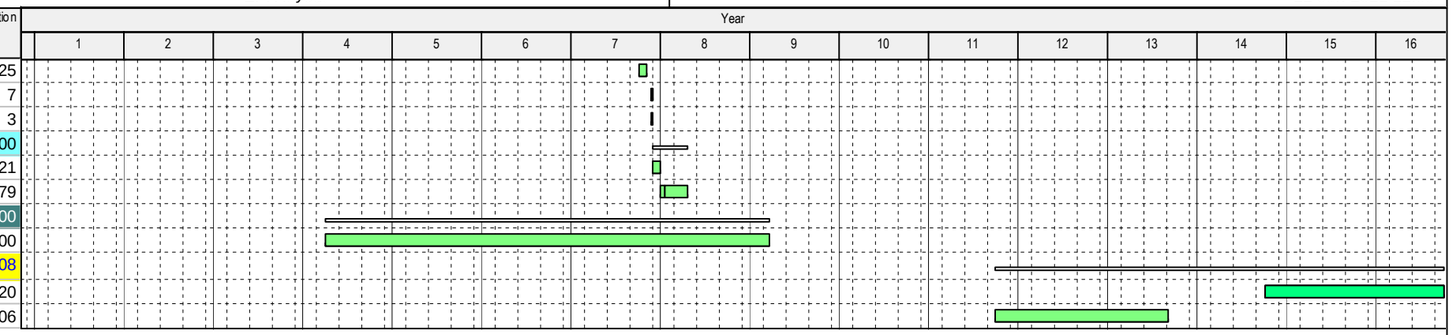
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	443110030 - Substation Drive Foundation Piles	4
	443110040 - Substation Place Gavel Bedding	8
	443110050 - Substation Place Concrete	61
	443110060 - Substation Furnish And Place Rebar	36
	443110070 - Substation Erect Substation & Transformers	100
	443110080 - Substation & Electrical Distribution	53
	SOUTH DELTA CONNECTIONS	1823
	BANKS OUTLET STRUCTURE	1823
	Mobilization & Overhead	120
	551020000 - Mobilization	60
	551050 - Temporary Facilities	90
	Tunnel Outlet	1789
	552005 - Clearing & Grubbing Banks Outlet Struct Area	11
	552008 - Site Fencing	18
	552505 - Banks Tunnel Outlet Structure Dewatering	1660
	553005 - Outlet Structure Earthwork	1288
	Outlet Structure	1720
	553005 - Outlet Structure Earthwork	1720
	553015 - Stilling Well Backfill	5
	553015 - Stilling Well Slab	18
	553015 - Stilling Well Walls	23
	553030 - Sheetpiles	1630
	Slab & Weir	399
	553015 - Banks Tunnel Outlet Structure Slab Concrete	285
	553015 - Banks Tunnel Outlet Walls & Pier Concrete	225
	5530151 - BTO Bridge Slab Concrete	199
	5530157 - BTO CS Weir Concrete	33
	Gates & MEP	207
	553020 - Banks Tunnel Outlet Structure Gates & Stop Logs	133
	553025 - Banks Tunnel Outlet Structure MEP	50
	Site Restoration	69
	S. Delta Outlet/CA Aque Cont. Str.-Restoration	69
	CALIFORNIA AQUIDUCT CONTROL STRUCTURE	773
	Earthworks	749
	55303001 - Dewater Canal Structure	749
	55303003 - Excavate Diversion Channel	322
	55303004 - Push/Pile Excavation On Outside Of Channel	45
	55303005 - Scarify & Recompact Canal Invert	4
	55303006 - Finish & Compact	10
	55303007 - Backfill	30
	Slab	580
	5530350 - Calif. Aqueduct Control Structure Earthworks	580
	553040010 - California Aqueduct CS Slab Concrete	80
	553040020 - California Aqueduct CS Slab Rebar	45
	553040021 - California Aqueduct CS CS Stilling Wells Slab	35
	553040021 - California Aqueduct CS CS Stilling Wells Walls	39
	553040024 - California Aqueduct CS CS Stilling Wells Backfill	5
	553045000 - Articulated Paving Blocks	146
	Walls	90
	553040030 - Californiua Aqueduct CS Wall Concrete	90
	553040040 - California Aqueduct CS Wall Rebar	65
	Weir & Bridge	49
	553040050 - California Aqueduct CS Bridge Slab Concrete	42



TASK filter: summary schedule.

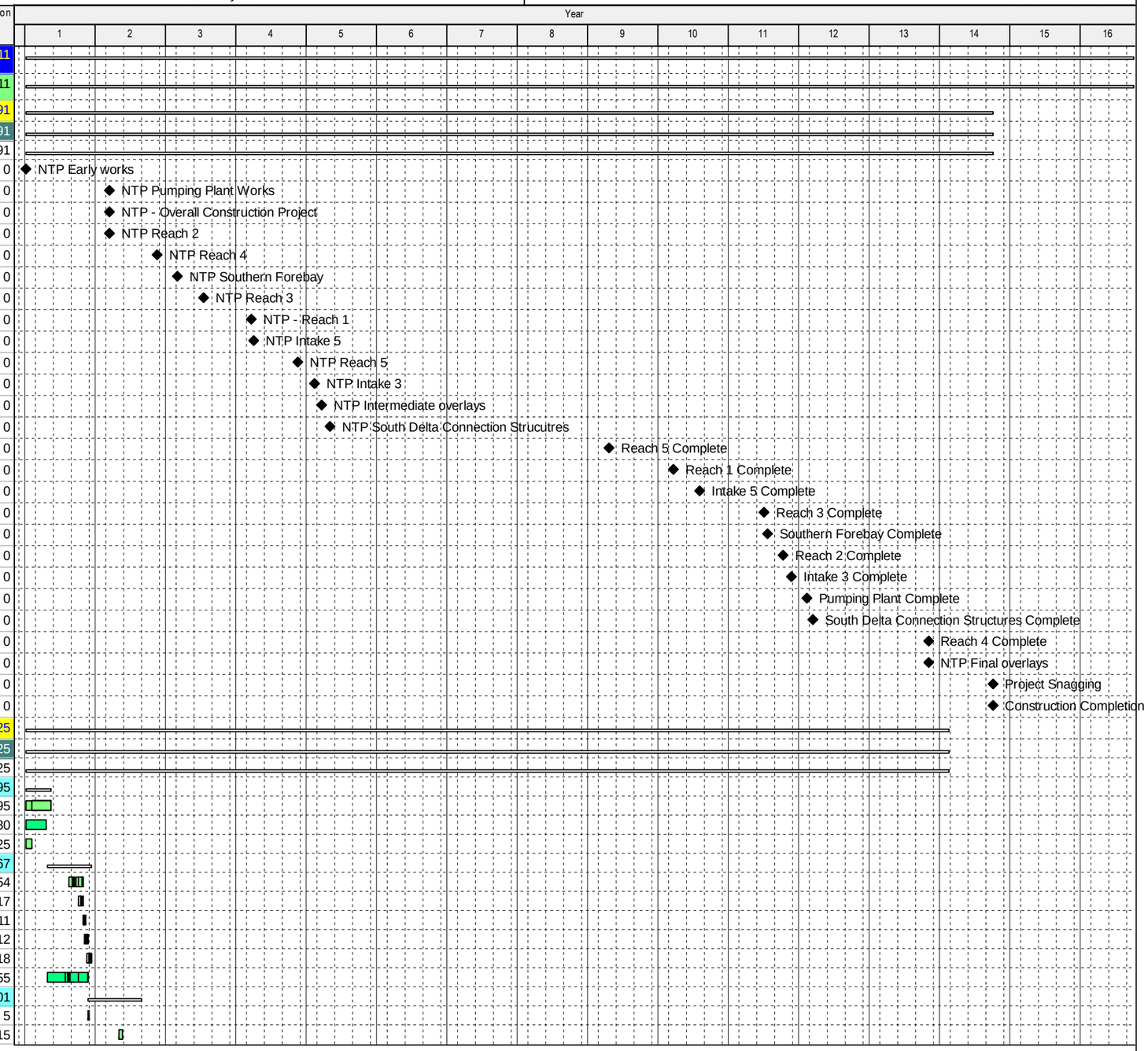
Activity ID	Activity Name	Original Duration
553040060	California Aqueduct CS Bridge Slab Rebar	25
553040070	California Aqueduct CS Weir Concrete	7
553040080	California Aqueduct CS Weir Rebar	3
Gates & MEP		100
553040090	California Aqueduct CS Misc. Metal	21
553040100	California Aqueduct CS Gates & Stoplogs	79
MISC ADDITIONAL CONSTRUCTION ACTIVITIES		1300
Allowance		1300
CM COMMUNICATION & CONTROL / COMMISSIONING		1308
Commissioning		520
Communicatrion & Control		506



TASK filter: summary schedule.

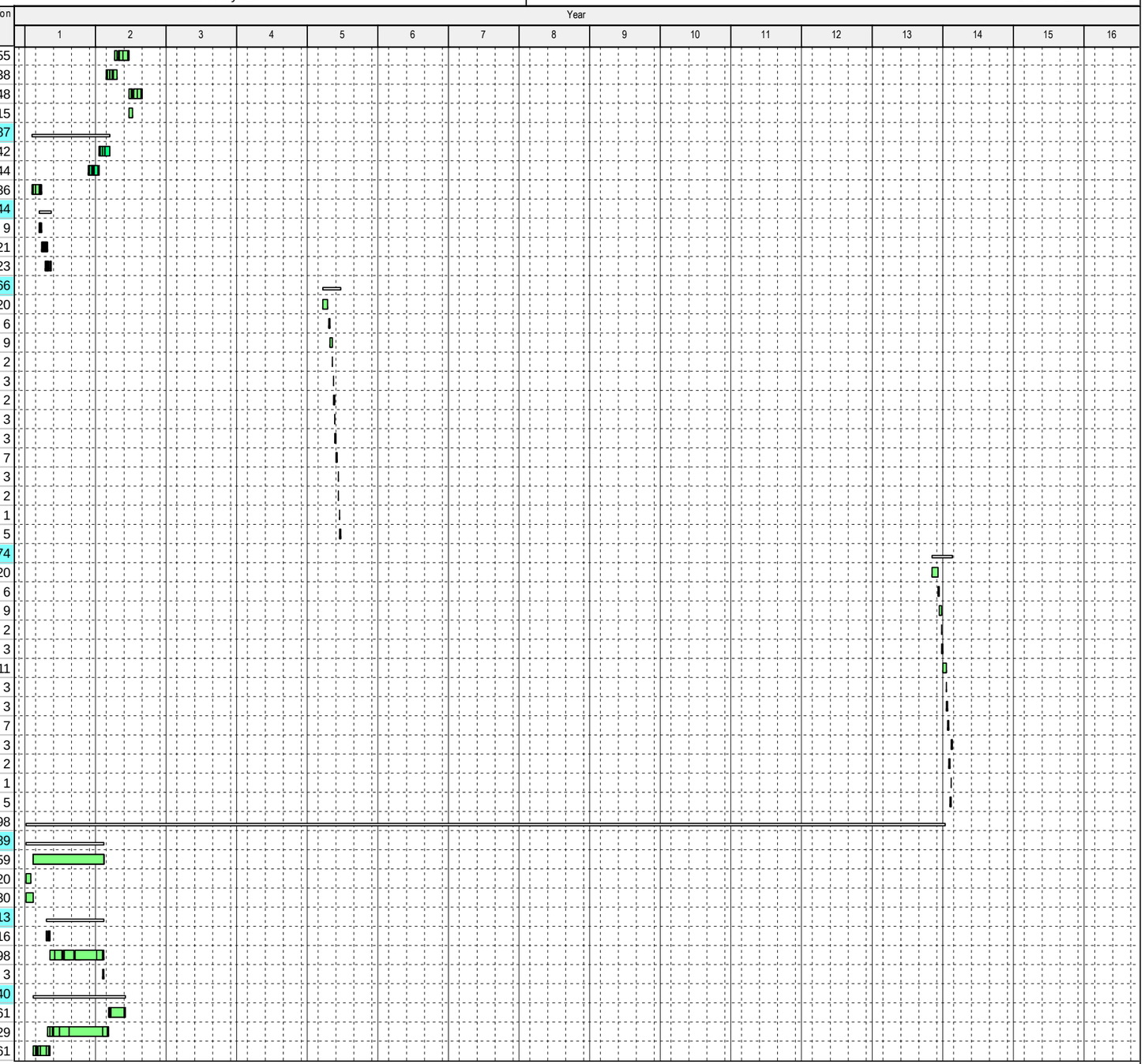
Construction Schedule - Option 2B: Eastern Alignment 6000 cfs Tee Screen Intake

Activity ID	Activity Name	Original Duration
DELTA CONVEYANCE PROJECT EDM - Eastern 2B 2020-09 Footprint		4111
CO CONSTRUCTION		4111
CO.PG PROGRAMMATIC MANAGEMENT		3591
CONSTRUCTION MILESTONES		3591
Construction Milestones		3591
G1010	NTP Early works	0
K1000	NTP Pumping Plant Works	0
A1000	NTP - Overall Construction Project	0
E1000	NTP Reach 2	0
C1000	NTP Reach 4	0
J1000	NTP Southern Forebay	0
D1000	NTP Reach 3	0
F1010	NTP - Reach 1	0
G1000	NTP Intake 5	0
B1000	NTP Reach 5	0
G9010	NTP Intake 3	0
I1000	NTP Intermediate overlays	0
G1020	NTP South Delta Connection Strucutres	0
B9000	Reach 5 Complete	0
F9002	Reach 1 Complete	0
G9020	Intake 5 Complete	0
D9000	Reach 3 Complete	0
J9000	Southern Forebay Complete	0
E9000	Reach 2 Complete	0
G9000	Intake 3 Complete	0
K9000	Pumping Plant Complete	0
G1030	South Delta Connection Structures Complete	0
C9000	Reach 4 Complete	0
I1010	NTP Final overlays	0
Z9000	Project Snagging	0
Z9010	Construction Completion	0
CO.EW CONSTRUCTION EARLY WORKS		3425
ROAD WORKS		3425
NORTH ROAD WORKS		3425
MOB/FACILITIES NORTH		95
771002020-Contractor Site Management & Facilities - East - N		95
771003000 - Mobilization Both North		80
771003020-Mobilization - East - North		25
PARK AND RIDES		167
771310000 - Employee Park & Rides		54
771311000-Employee Park & Ride - Byron & Bethany - Both		17
771312000-Employee Park & Ride - Flag City - Both		11
771313000-Employee Park & Ride - I-5 & Charter Way - Both		12
771314000-Employee Park & Ride - Rio Vista - Both		18
771315000-Employee Park & Ride - Hood Franklin - Both		155
ACCESS TO INTAKES		201
771120000 - Hood Franklin Road Widening		5
771130000-Intakes Access Road - Both		15



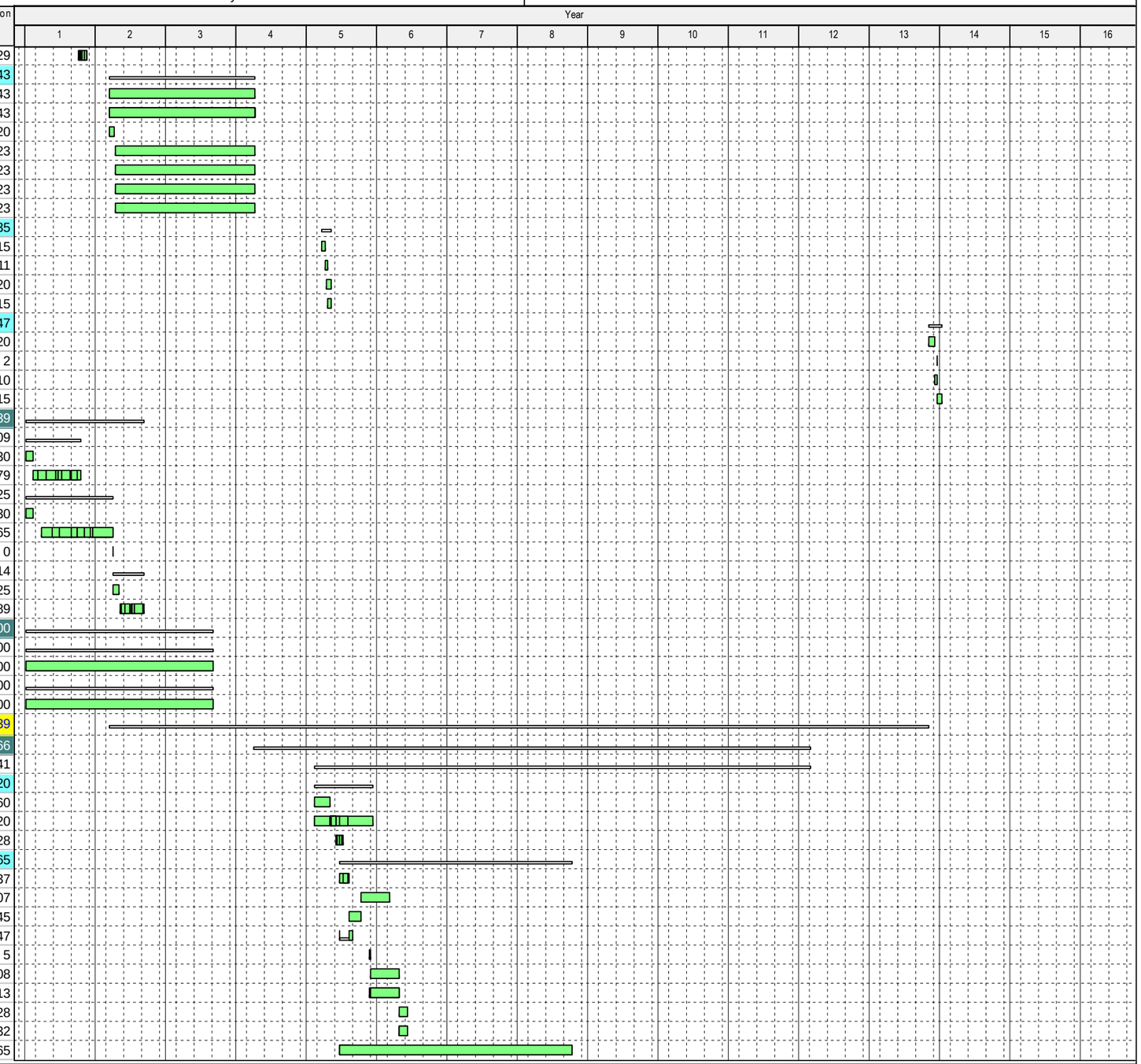
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	771150000 - C-E-5 Intake Access Road	55
	771460000 - Lambert Road Widening	38
	771840000 - Intake #3	48
	771860000-Intakes - SR160 - Both	15
	ACCESS TO TWIN CITIES	287
	771420000 - Dierrsen Road Paving	42
	771430000 - Franklin Blvd Improvements at Dierrsen	44
	771470000 - Twin Cities Road Widening (East)	36
	ACCESS TO N MID DELTA	44
	771710000-New Hope Tract Road - East	9
	771730000-Highway 12 /Terminous Tract Widening - East	21
	771770000-Canal Ranch Tract - East	23
	INTERMEDIATE OVERLAYS	66
	771006300-Mobilization - Intrm Overlay - Both	20
	771120000-Hood Franklin Road - Both	6
	771130000-Intakes Access Road - Both	9
	771140000-Bruns Way Widening - Both	2
	771150000-C-E-5 Intake Access Road - Both	3
	771350000-Western Farms Road - South - Both	2
	771420000-Dierrsen Road Paving - Both	3
	771430000-Franklin Blvd Improvements at Dierrsen - Both	3
	771460000-Lambert Road Widening - Both	7
	771470000-Twin Cities Road Widening (East) - Both	3
	771610000-E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
	771840000-Intake #3 Access Road - Both	1
	771990000-Intake #2 Access Road - Option	5
	FINAL OVERLAYS	74
	771006600-Mobilization - Final Overlay - Both	20
	771120000-Hood Franklin Road - Both	6
	771130000-Intakes Access Road - Both	9
	771140000-Bruns Way Widening - Both	2
	771150000-C-E-5 Intake Access Road - Both	3
	771210000-Southern Forebay Byron Highway New Interchange B	11
	771420000-Dierrsen Road Paving - Both	3
	771430000-Franklin Blvd Improvements at Dierrsen - Both	3
	771460000-Lambert Road Widening - Both	7
	771470000-Twin Cities Road Widening (East) - Both	3
	771610000-E Lower Jones Rd Extn/Holt RR Overpass BNSF - Both	2
	771840000-Intake #3 Access Road - Both	1
	771990000-Intake #2 Access Road - Option	5
	SOUTH ROAD WORKS	3398
	MOB/FACILITIES SOUTH	289
	771002025-Contractor Site Management & Facilities - East - S	259
	771003005-Mobilization - Both - South	20
	771003025-Mobilization - East - South	30
	ACCESS TO S MID DELTA	213
	771820000-Upper Jones Tract Road - East	16
	771830000-Lower Roberts Island Road - East	198
	771870000-Kings Island Access Road - East	3
	ACCESS TO SOUTHERN COMPLEX	340
	771140000 - Bruns Way Widening	61
	771210000 - Southern Forebay Byron Highway New Interchange	229
	771340000 - Discovery Bay Blvd Access road	61



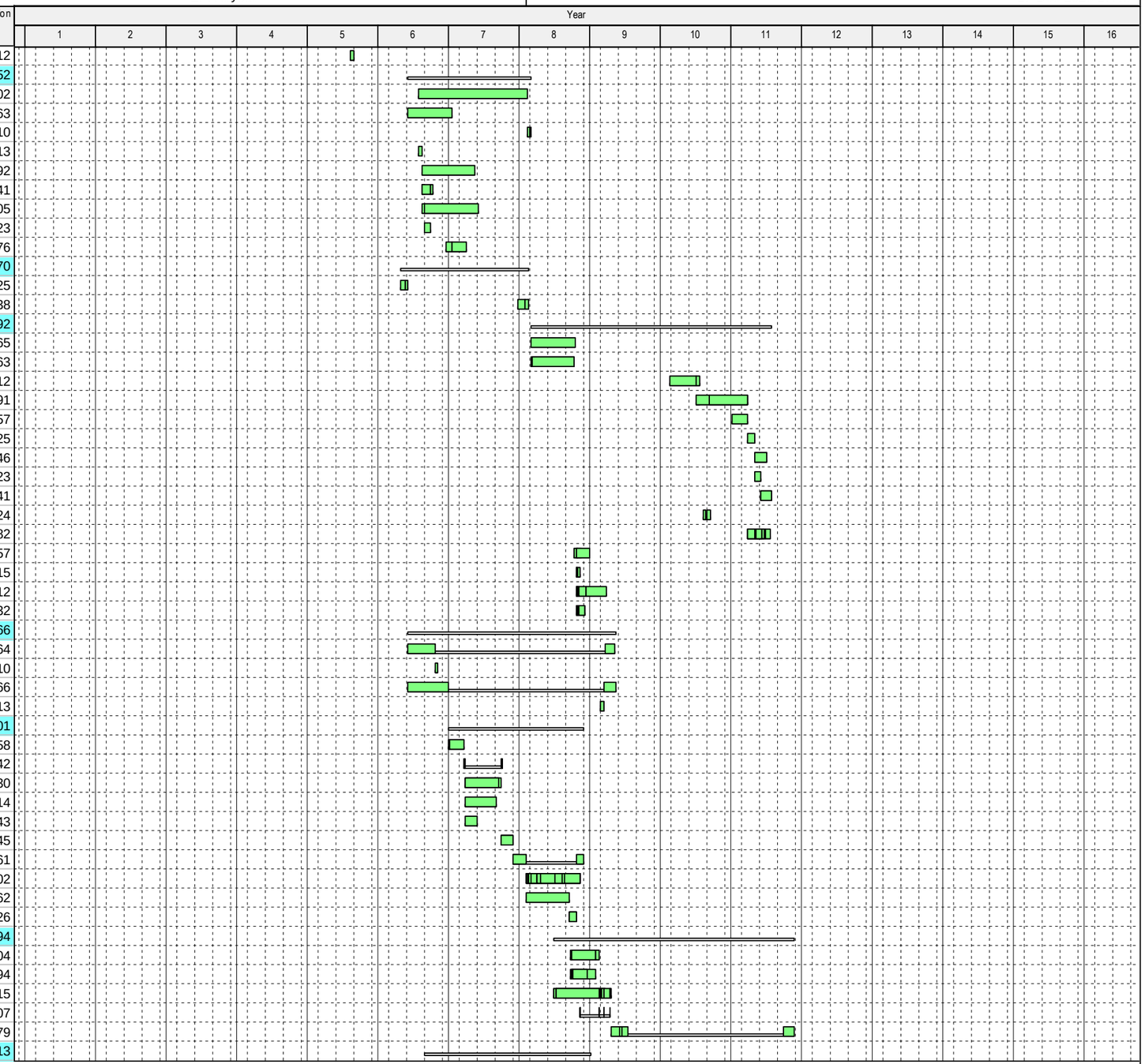
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
771350000	Western Farms Road	29
ROAD MAINTENANCE		543
771005005	Contractors Overhead and Profit - Road Maint - E	543
771005220	Contractor Site Mngt & Facilities - Road Maint - E	543
771005320	Mobilization - Gravel Road Maintenance - East	20
771710000	New Hope Tract Road - East	523
771770000	Canal Ranch Tract - East	523
771820000	Upper Jones Tract Road - East	523
771870000	Kings Island Access Road - East	523
INTERMEDIATE OVERLAYS		35
771006320	Mobilization - Intrm Overlay - East	15
771210000	Southern Forebay Byron Highway New Interchange B	11
771830000	Lower Roberts Island Road - East	20
771860000	Intakes - SR160 - Both	15
FINAL OVERLAYS		47
771006620	Mobilization - Final Overlay - East	20
771350000	Western Farms Road - South - Both	2
771830000	Lower Roberts Island Road - East	10
771860000	Intakes - SR160 - Both	15
RAIL WORKS		439
NORTHERN GLANDEVILLE TRACT RAIL ACCESS		209
772003000	Mobilization	30
772017010	Dierssen Rail Yard	179
SOUTHERN FOREBAY RAIL ACCESS		325
772003005	Mobilization - Both - South	30
772019	Byron Tract Rail Yard	265
772019050	Track - Both	0
LOWER ROBERTS ISLAND RAIL WORKS		114
772003010	Mobilization - East	25
7720200	Lower Roberts Rail Yard	89
POWER AND UTILITY EARLY WORKS		700
POWER/ELECTRIC WORKS		700
601008	Electrical	700
UTILITY LOGISTICS		700
Utility Logistics		700
CO.MAJOR CONSTRUCTION		3039
IN INTAKES		2066
IN INTAKE 3		1841
Mobilization & Operations		220
113003000	Intake 3 Contractor Mobilization	60
113007010	Construct Temp Buildings & Utilities	220
113007100	Intake 3 Build Site Construction Roads	28
Phase 1 Sitework		865
113305100	Int 3 Ph1Site Clear & Grub	37
113305210	Int 3 Ph 1 DMM Soil Improvement	107
113305220	Int 3 Ph 1 DMM Cut-off Trench	45
113305230	Int 3 Ph 1 DMM Subcontract Mobe & Demobe	47
113305300	Int 3 Ph 1 Excavate Key Trenches	5
113305410	Int 3 Ph 1 Highway Temporary Fill from Reqd Exc	108
113305430	Int 3 Ph1 Moisture Condition Suitable Soil	113
113305510	Int 3 Ph1 Place Dike Fill from Reqd Excavation	28
113305520	Int 3 Ph 1 Moisture Condition Suitable Soil	32
113305600	Int 3 Ph1 Dewater Excavation W Deep Wells	865



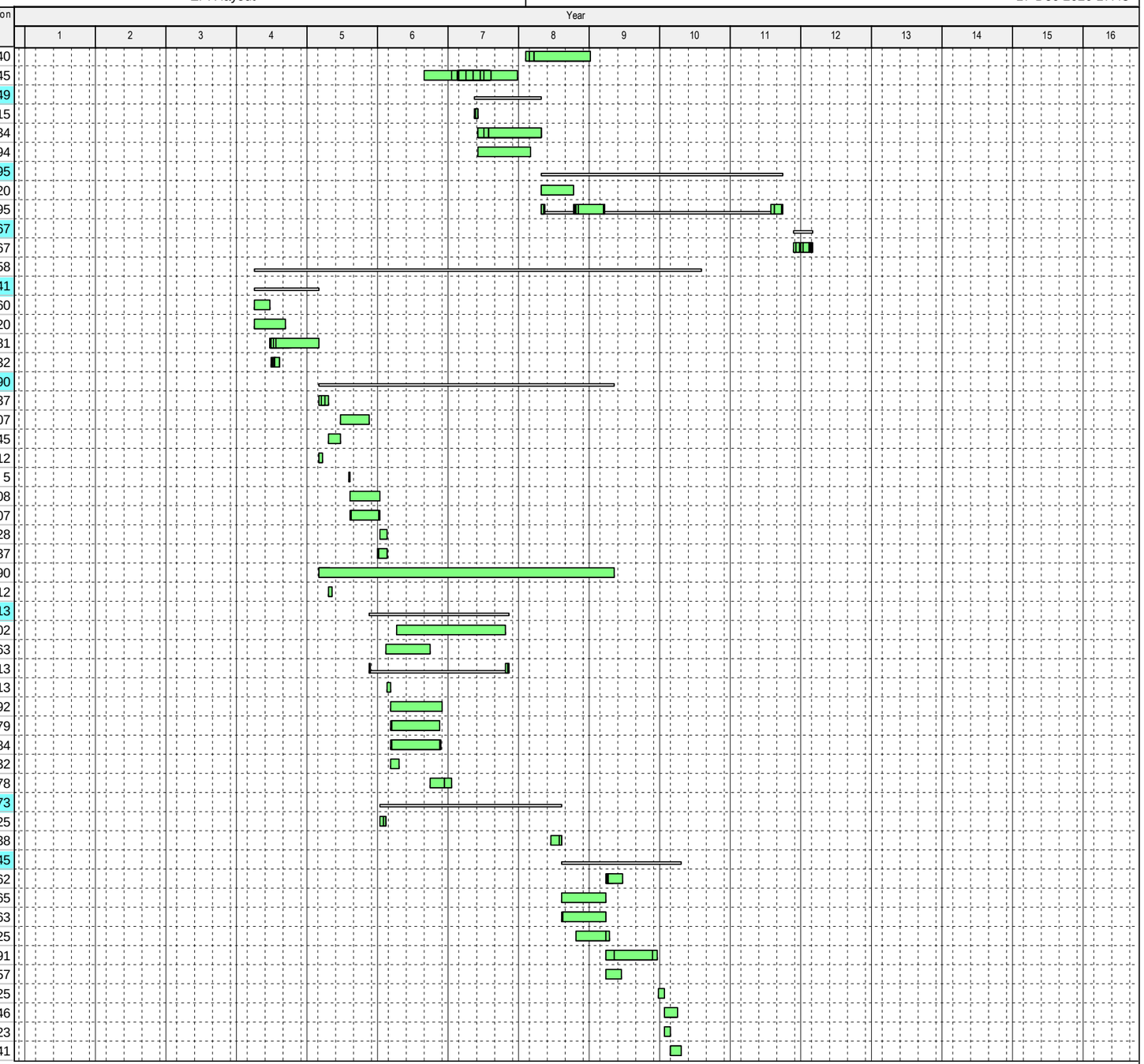
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113305800	Int 3 Ph 1 Temporary Plating	12
	Phase 2 Sitework	452
113306210	Int 3 Ph 2 DMM Soil Improvement	402
113306220	Int 3 Ph 2 DMM Cut-off Trench	163
113306230	Int 3 Ph 2 DMM Subcontract Mobe & Demobe	10
113306300	Int 3 Ph 2 Excavate Key Trenches	13
113306510	Int 3 Ph 2 Fills from Required Excavation	192
113306520	Int 3 Ph 2 Fills From Borrow	41
113306530	Int 3 Ph 2 Moisture Condition Suitable Soil	205
113306700	Int 3 Ph 2 Temporary Plating	23
113322300	H Piles in DMM Wall	76
	Roads	470
113305900	Intake 3 Pave Temporary Highway 160	25
113306800	Int 3 Ph 2 Pave New Highway 160 & Dike Roads	38
	Phase 3 Sitework	892
113309120	Int 3 Ph 3 Embankment Fill from Site Excavation	165
113309130	Int 3 Ph 3 Moisture Condition Soil	163
113309140	Int 3 Ph3 Excavate Unsuitable to Spoil	112
113309150	Int 3 Ph3 Final Grade and Invert Rock	191
113309160	Int 3 Ph3 Final Grade and Road Plating	57
113309200	Int 3 Ph 3 Dredge Pipe From Basin To Lagoons	25
113309320	Intake 3 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
113309330	Intake 3 Ph 3 Sed Drying Lagoons Underdrains	23
113309340	Intake 3 Ph 3 Sed Drying Lagoons Roller Compact	41
113309400	Intake 3 Hypalon Curtain	24
113309500	Intake 3 Final Utilities, Paving, Fence, S	82
113309600	Intake 3 Office & Vehicle Storage	57
113309700	Intake 3 Fueling Station	15
113309800	Intake 3 Substation & Elect Distribution	112
113309900	Intake 3 Drop Gate/Stoplog Storage Enclosure	32
	Cofferdams	766
113307100	Intake 3 HZ975D-14/AZ18 Front Combi Wall Coffer	764
113307200	Intake3 Fender System	10
113307300	Intake 3 PZC26 Back Wall Cofferdam	766
113307400	Dredging in front of Cofferdam	13
	Intake Structure	501
113313000	Intake 3 Excavate Inside Intake Coffertam	58
113315100	Mobilize Drill Spread	142
113315210	Drill & Case Pier Shafts	130
113315220	Reinforcing Steel	114
113315230	Place Fill Concrete	43
113317000	Intake 3 Tremie Concrete Under Intake Structure	45
113319000	Intake 3 Dewater Intake C'dam & Place Xbra	261
113321100	Intake 3 Place Concrete	202
113321200	Furnish And Place Rebar	162
113321300	Intake 3 Concrete Fill (flowable concrete)	26
	Intake MEP	894
113323000	Intake 3 sluice gates and guides	104
113324000	Intake 3 Box Shaft sluice gates and guides	94
113325000	Intake 3 Fish Screens, Panels, & Cleaning	215
113327000	Intake 3 MEP	107
113329000	Intake 3 Finish Out	679
	Intake/Basin Pipe Connections	613



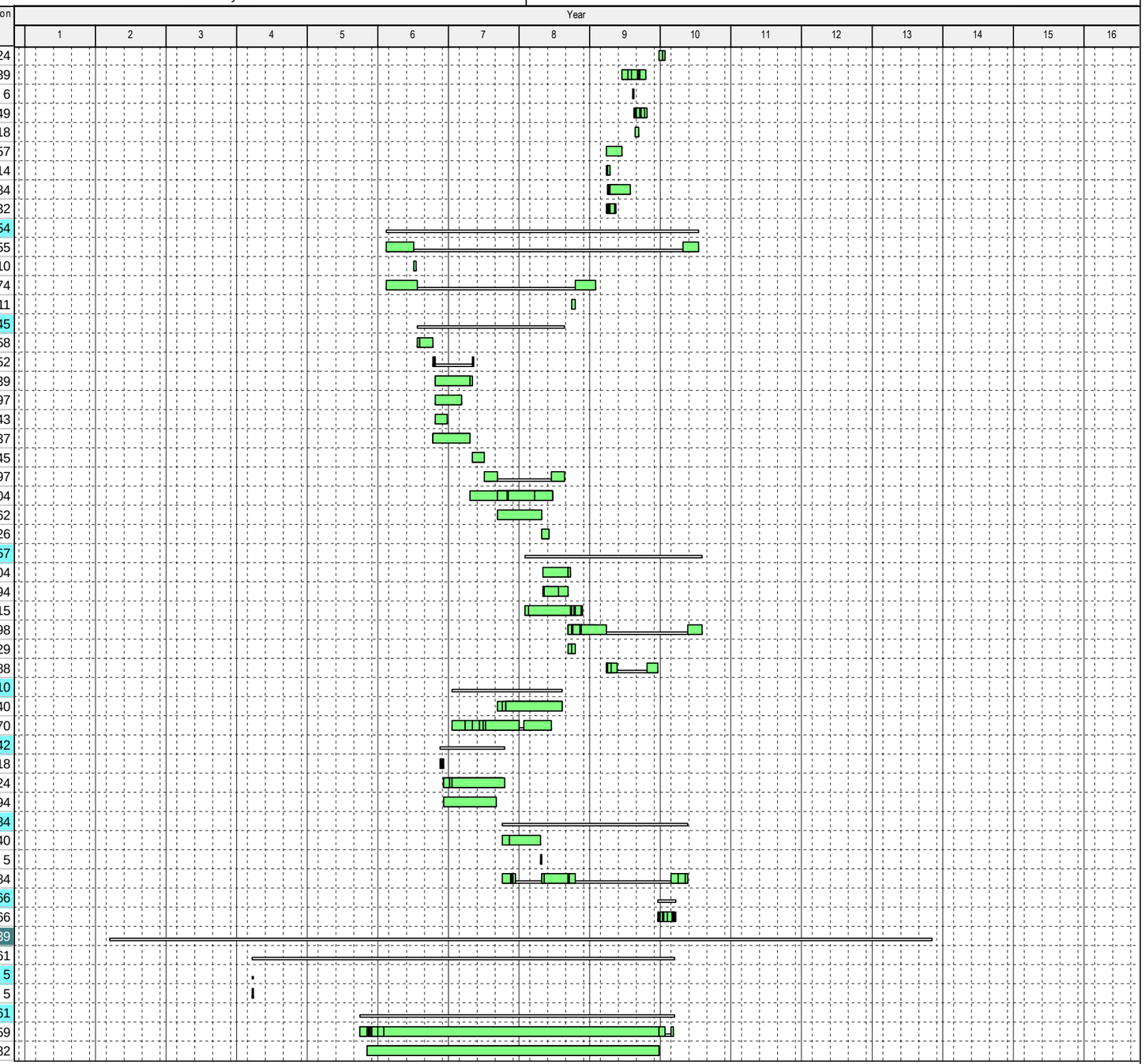
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
113322100	Steel Pipe installation	240
11332250	Sluice Gate Shaft & Outlet	345
	Sedimentation Basins	249
113355000	Intake 3 Sediment Basin Drive Piles	15
113357100	Place Concrete	234
113357200	Furnish And Place Rebar	194
	Sedimentation Basins MEP	895
113359000	Intake 3 Sediment Basin Radian Gates & Stoplogs	120
113361000	Intake 3 Sediment Basin MEP & Finish Work	895
	Site Restoration	67
	Intake No. 3 - Site Restoration	67
	IN INTAKE 5	1658
	Mobilization & Operations	241
115003000	Intake 5 Contractor Mobilization	60
115005060	Intake 5 Personnel Mobe Expense	120
115007010	Construct Temporary Buildings & Utilities	181
115007100	Intake 5 Build Site Construction Roads	32
	tework	1090
115205100	Int 5 Ph1 Clear and Grub	37
115205210	Int 5 Ph 1 DMM Soil Improvement	107
115205220	Int 5 Ph 1 DMM Cut-off Trench	45
115205230	Int 5 Ph 1 DMM Subcontract Mobe & Demobe	12
115205300	Int 5 Ph 1 Excavate Key Trenches	5
115205410	Int 5 Ph 1 Highway Temporary Fill from Reqd Exc	108
115205430	Int 5 Ph1 Moisture Condition Suitable Soil	107
115205510	Int 5 Ph1 Place Dike Fill from Reqd Excavation	28
115205520	Int 5 Ph 1 Moisture Condition Suitable Soil	37
115205600	Int 5 Ph 1 Dewater Excavation with Deep Wells	1090
115205800	Int 5 Ph 1 Temporary Plating	12
	tework	513
115206210	Int 5 Ph 2 DMM Soil Improvement	402
115206220	Int 5 Ph 2 DMM Cut-off Trench	163
115206230	Int 5 Ph 2 DMM Subcontract Mobe & Demobe	513
115206300	Int 5 Ph 2 Excavate Key Trenches	13
115206510	Int 5 Ph 2 Fills from Required Excavation	192
115206530	Int 5 Ph 2 Moisture Condition Suitable Soil	179
115206540	Int 5 Ph 2 Place Dike Core Fill from Borrow	184
115206700	Int 5 Ph 2 Place Temporary Gravel Plating	32
115222300	H Piles in DMM Wall	78
	Roads	673
115205900	Int 5 Ph 2 Pave Temporary Highway 160	25
115206800	Int 5 Ph 2 Pave New Highway 160 & Dike Roads	38
	tework	445
113309600	Intake 3 Office & Vehicle Storage	62
115209120	Int 5 Ph 3 Embankment Fill from Site Excavation	165
115209130	Int 5 Ph 3 Moisture Condition Soil	163
115209140	Int 5 Ph3 Excavate Unsuitable to Spoil	125
115209150	Int 5 Ph3 Final Grade and Invert Rock	191
115209160	Int 5 Ph3 Place Area Pllating	57
115209200	Int 5 Ph 3 Dredge Pipe From Basin To Lagoons	25
115209310	Int 5 Ph 3 Sed Drying Lagoons Shotcrete Lining	46
115209320	Int 5 Ph 3 Sed Drying Lagoons Underdrains	23
115209330	Int 5 Ph 3 Sed Drying Lagoons Roller Compact	41



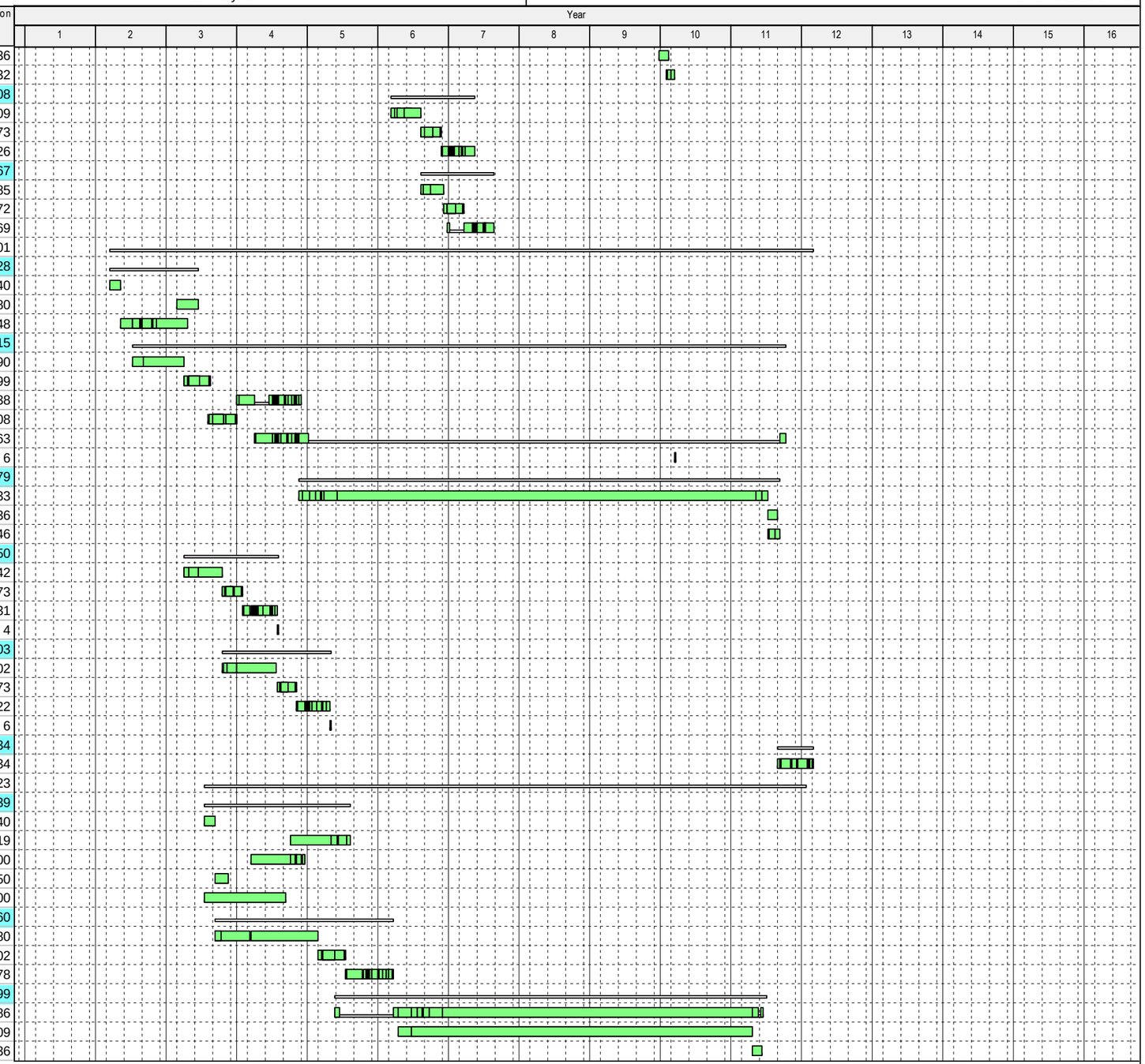
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
115209400	Int 5 Ph 3 Hypalon Curtain	24
115209500	Int 5 Ph3 Final Utilities, Paving, Fence, S	89
115209610	Place Gravel Foundation Bedding	6
115209620	Place Concrete Slab	49
115209630	Furnish And Place Rebar	18
115209640	Building Construction And Equipment	57
115209700	Fueling Station	14
115209800	Intake 5 Substation & Electrical Distribution	84
115209900	Intake 5 Drop Gate/Stoplog Storage Enclosure	32
	Cofferdams	1154
115207100	Intake 5 HZ975D-14/AZ18 Front Combi Wall Coffer	1155
115207200	Intake5 Fender System	10
115207300	Intake 5 PZC26 Back Wall Cofferdam	774
115207400	Dredge in front of Cofferdam	11
	Intake Structural	545
115213000	Intake 5 Excavate Inside Intake Coffertam	58
115215100	Mobilize & Demobilize Drill Spread	152
115215210	Drill & Case As Reqd Pier Shafts	139
115215220	Reinforcing Steel	97
115215230	Concrete	43
115215240	Pier Shaft Contractor Profit, G&A, & Conti	137
115217000	Intake 5 Tremie Concrete Under Intake Stru	45
115219000	Intake 5 Dewater Intake C'dam & Place Xbra	297
115221100	Intake 5 Place Concrete	304
115221200	Furnish and Place Rebar	162
115221300	Intake 5 Place Fill Concrete (flowable concrete)	26
	Intake MEP	657
115223000	Intake 5 Sluice Gates, Guides & Opera	104
115224500	Intake 5 Box shaft sluice gates and Guides	94
115225000	Intake 5 Fish Screens, Panels, & Cleaning	215
115227100	Intake 5 MEP	498
115227600	Intake 5 Gantry Cranes & Rail	29
115229000	Intake 5 Finish Out	188
	Intake/Basin Pipe Connections	410
113322100	Steel Pipe installation	240
11522250	Sluice Gate Shaft & Outlet	370
	Sedimentation Basins	242
115255000	Intake 5 Sediment Basin Drive Piles	18
115257100	Place Concrete	224
115257200	Furnish And Place Rebar	194
	Sedimentation Basin MEP	684
115259000	Intake 5 Sediment Basin Radial Gates & Stoplogs	140
115261000	Intake 3 Sediment Basin MEP & Finish Work	5
115261000	Intake 5 Sediment Basin MEP & Finish Work	684
	Site Restoration	66
	Intake No. 5 - Site Restoration	66
	TUNNELS AND SHAFTS	3039
	REACH 1	1561
	MOBILIZATION & INDIRECTS	5
21100425	Reach 1 Mobilize & Setup Main Construction Site	5
	TUNNEL REACH 1	1161
21300440	Reach 1 Tunnel	1159
21300440	Reach 1 Tunnel Support	1082



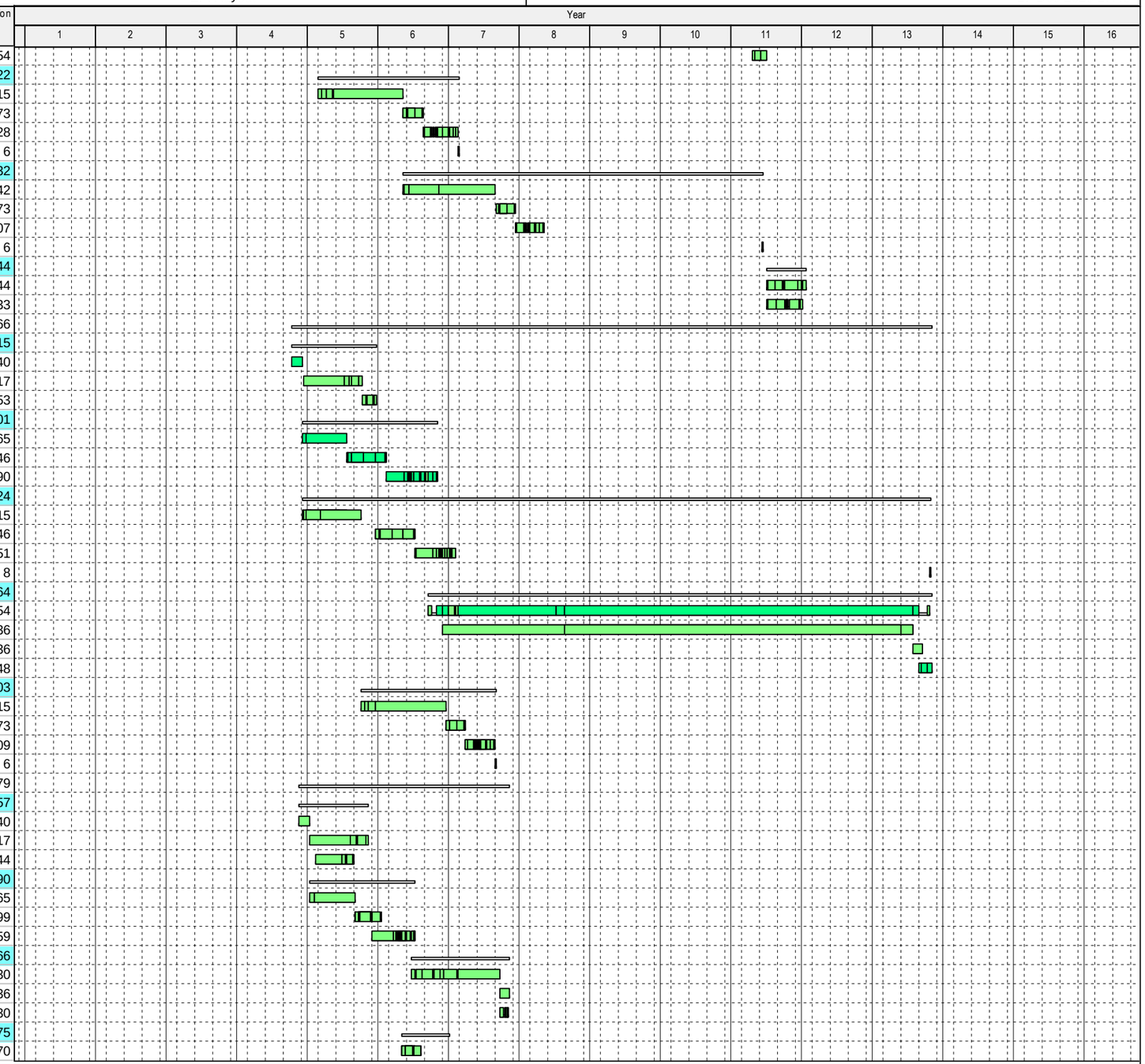
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
21300445	Reach 1 Remove TBM	36
21300460	Reach 1 Remove Tunnel Utilities & Cleanup	32
INTERMEDIATE SHAFT INTAKE 5 REACH 1		308
216005	Reach 1 Work Area for Pass through Shaft - Intake 5	109
21600530	Reach 1 D'Wall for Pass through Shaft - Intake 5	73
21600535	Reach 1 Excavate/build Pass through Shaft - Intake 5	126
RECEPTION SHAFT INTAKE 3 REACH 1		267
214005	Reach 1 Work Area for Reception Shaft - Intake 3	85
21400510	Reach 1 D'Walls for Reception Shaft - Intake 3	72
21400515	Reach 1 Excavate/build Reception Shaft - Intake 3	169
REACH 2		2601
MOBILIZATION & INDIRECTS		328
22100515	Reach 2/1 Mobilize & Setup Site	40
22200516	Reach 2/1 Ring Levee around RTM	80
22200522	Reach 2 Work site area & segment pad	248
DOUBLE LAUNCH SHAFT REACH 2/1		2415
222005	Reach 2/1 Work Area for Launch Shafts	190
22200519	Reach 2 D'Walls for Launch shaft	99
22200520	Reach 2 Excavate/build Launch Shaft	238
22200525	Reach 1 D'Wall for Launch shaft	108
22200530	Reach 1 Excavate/build Launch Shaft	1963
22200531	Reach 2/1 Launch Shaft Finishing	6
TUNNEL REACH 2		1779
22300530	Reach 2 Tunnel	1733
22300535	Reach 2 Remove TBM	36
22300550	Reach 2 Remove Tunnel Utilities & Cleanup	46
MAINTAINANCE SHAFT NEW HOPE TRACT		350
225006	Reach 2 Work Area for Maint Shaft - New Hope Tract	142
22500610	Reach 2 D'Walls for Maint Shaft - New Hope Tract	73
22500615	Reach 2 Excavate/build Maint Shaft - New Hope Tract	131
22500616	Reach 2 Maint Shaft Finishing - New Hope Tract	4
MAINTAINANCE SHAFT CANAL ROAD		403
226006	Reach 2 Work Area for Maint Shaft - Canal Road	202
22600625	Reach 2 D'Walls for Maint Shaft - Canal Road	73
22600630	Reach 2 Excavate/build Maint Shaft - Canal Road	122
22600635	Reach 2 Maint Shaft Finishing - Canal Island	6
Site Restoration		134
Glanville Tract	Launch Shaft Site Restoration	134
REACH 3		2223
MOBILIZATION & INDIRECTS		539
23100005	Reach 3 Mobilize & Setup Main Site	40
23100006	Reach 3 Work site RTM Area preparation	219
23100006	Reach 3 Work site segment pad	200
23100007	Reach 3 Work site Levee improvements	50
23300050	Reach 3 Tunnel Plant & Equipment	300
LAUNCH SHAFT LOWER ROBERTS ISLAND		660
232000	Reach 3 Work Area for Launch Shaft - Lower Roberts Island	380
23200009	Reach 3 D'Walls for Launch Shaft - Lower Roberts Island	102
23200010	Reach 3 Excavate/build Launch Shaft - Lower Roberts Island	178
TUNNEL REACH 3		1599
23300020	Reach 3 Tunnel	1586
23300020	Reach 3 Tunnel Support	1309
23300025	Reach 3 Remove TBM	36



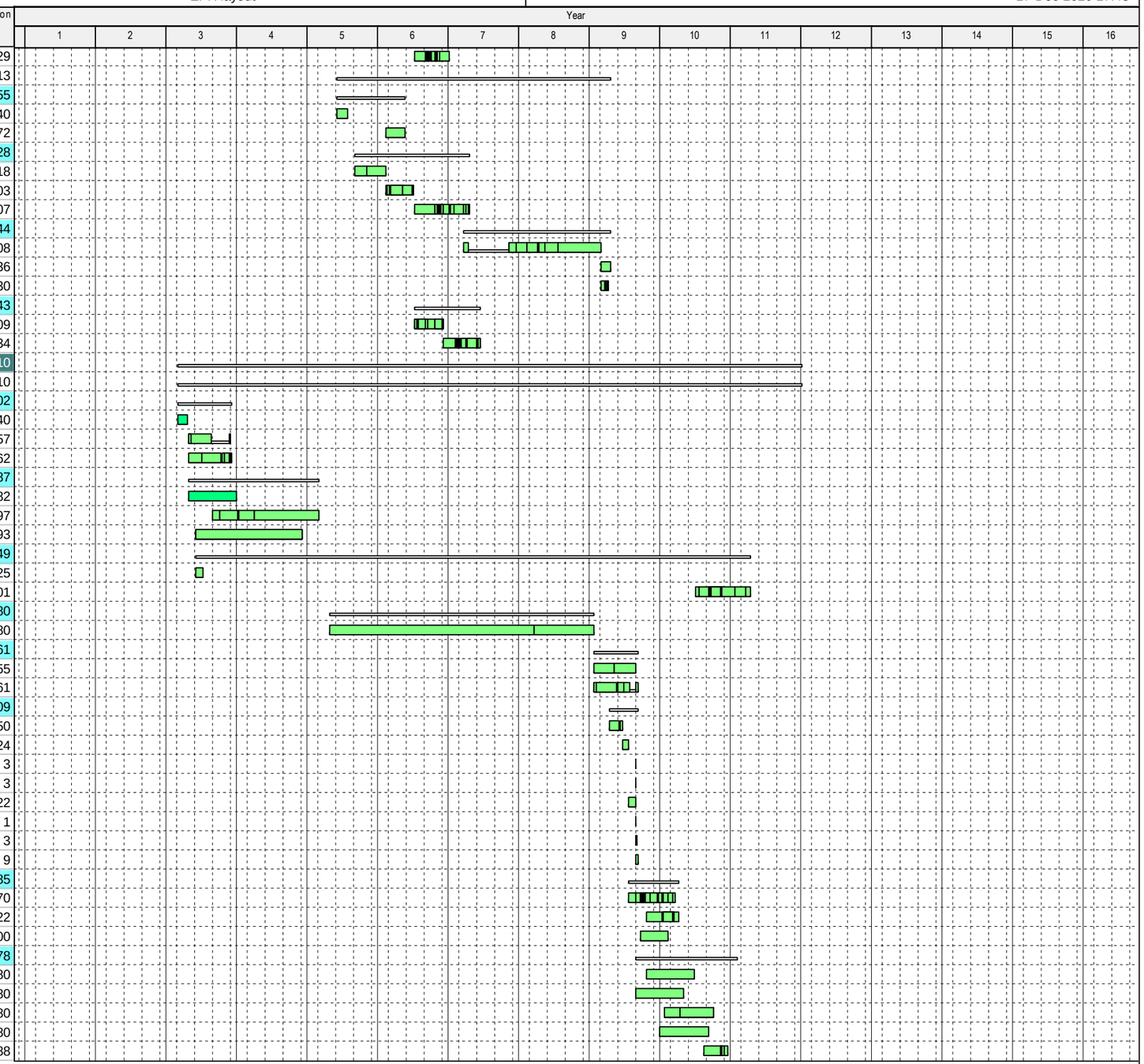
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
23300040	Reach 3 Remove Tunnel Utilities & Cleanup	54
	MAINTAINANCE SHAFT KINGS ISLAND	522
234000	Reach 3 Work Area for Maint shaft - Kings island	315
23400096	Reach 3 D'Wall for Maint Shaft - Kings Island	73
23400097	Reach 3 Excavate/build Maint Shaft - Kings Island	128
23400098	Reach 3 Shaft Finishing - Kings Island	6
	RECEPTION SHAFT TERMINUS TRACT	1332
234000	Reach 3(4) Work Area for Reception Shaft - Terminus Track	342
23400014	Reach 3(4) D'Wall for Reception Shaft - Terminus Track	73
23400015	Reach 3 (4) excavate/build reception Shaft - Terminus Track	107
23400016	Reach 3(4) Reception Shaft Finishing - Terminus Track	6
	Site Restoration	144
	Bouldin Island - Launch Shaft Site Restoration	144
	Lower Roberts Island - Launch Shaft Site Restore	133
	REACH 4	2366
	MOBILIZATION & INDIRECTS	315
24100115	Reach 4 Mobilize & Setup Site - SF North	40
24100116	Reach 4 RTM site preperation - SF North	217
24200186	Reach 4 Work Area Segment pad - SF North	53
	LAUNCH SHAFT SF NORTH	501
242001	Reach 4 Work Area for Launch Shaft - South Forebay	165
24200119	Reach 4 D'walls for Launch Shaft - South Forebay	146
24200120	Reach 4 Excavate/build Launch Shaft - South Forebay	190
	WORK SHAFT BYRON TRACT	2324
242001	Reach 4 Work Area for Work Shaft - Byron Tract	215
24200187	Reach 4 D'Wall for Work Shaft - Byron Tract	146
24200189	Reach 4 Excavate/build Work Shaft - Byron Tract	151
24210100	Reach 4 Work Shaft Finishing - Byron Tract	8
	TUNNEL REACH 4	1864
24300125	Reach 4 Tunnel	1854
24300125	Reach 4 Tunnel Support	1736
24300130	Reach 4 Remove TBM	36
24300145	Reach 4 Remove Tunnel Utilities & Cleanup	48
	MAINTAINANCE SHAFT UPPER JONES TRACT	503
234000	Reach 3 Work Area for Maint shaft - Upper Jones Tract	315
23400096	Reach 3 D'Wall for Maint Shaft - Upper Jones Tract	73
23400097	Reach 3 Excavate/build Maint Shaft - Upper Jones Tract	109
23400098	Reach 3 Shaft Finishing - Upper Jones Tract	6
	REACH 5E	779
	MOBILIZATION & INDIRECTS	257
25100630	Reach 5 Mobilize & Setup Site	40
25100631	Reach 5 RTM site preperation	217
25200635	Reach 5 Work Area Segment pad	144
	LAUNCH SHAFT REACH 5E	390
25200635	Reach 5E Launch Shaft Work Area	165
25200640	Reach 5E D'Wall for Launch Shaft	99
25200645	Reach 5E Excavate/build Launch Shaft	159
	TUNNEL REACH 5E	366
25300660	Reach 5E Tunnel	330
25300665	Reach 5E Remove TBM	36
25300680	Reach 5E Remove Tunnel Utilities & Cleanup	30
	RECEPTION SHAFT REACH 5E	175
25400650	Reach 5E D'Wall Reception Shaft	70



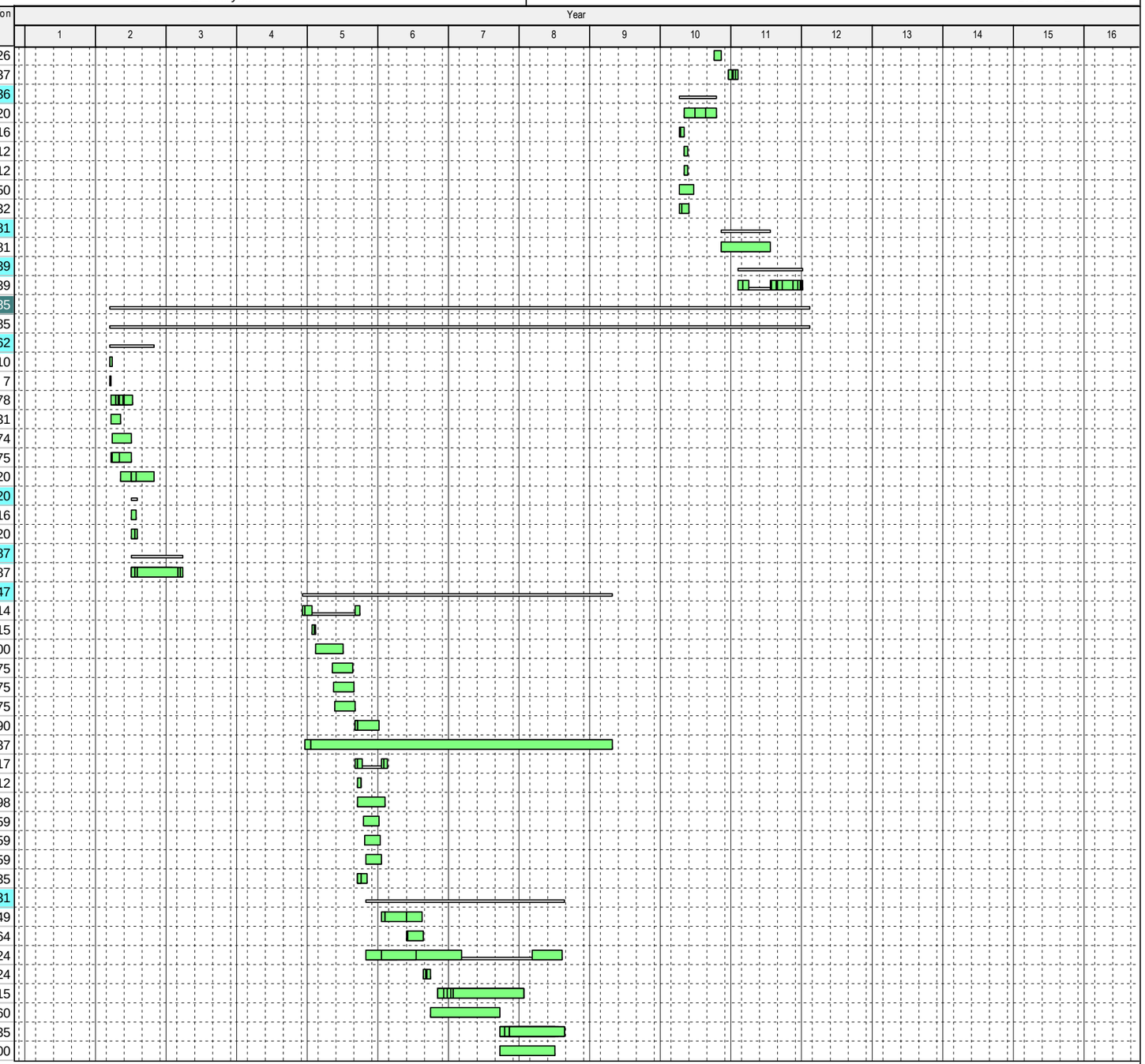
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
25400651	Reach 5E Excavate/build Reception Shaft	129
REACH 5W		1013
MOBILIZATION & INDIRECTS		255
26100730	Reach 5W Mobilize & Setup Site	40
26200735	Reach 5W Launch Shaft Work Area	72
LAUNCH SHAFT REACH 5W		428
26200735	Reach 5W Launch Shaft Work Area	118
26200740	Reach 5W D'Wall for Launch Shaft	103
26200745	Reach 5W Excavate/build Launch Shaft	207
TUNNEL REACH 5W		544
26300760	Reach 5W Tunnel	508
26300765	Reach 5W Remove TBM	36
26300780	Reach 5W Remove Tunnel Utilities & Clean Up	30
RECEPTION SHAFT REACH 5W		243
26400650	Reach 5W D'Wall for Reception Shaft	109
26400751	Reach 5W Excavate/build Reception Shaft	134
FR FOREBAY		2310
SOUTHERN FOREBAY		2310
Mobilization & Overhead		202
331003000	S Forebay Contractor Mobilization	40
331005080	Job Site Plant	157
331005100	Site Prep Plant	162
Foundations		487
332005000	Southern Forebay Clear & Grub/Demolition	182
332035100	Dewater Embankment Foundation	397
332035125	Foundation Excavation Pad Fill for S Forbay	393
Material Handling		2049
332035100	Dewater Embankment Foundation	25
332035300	Rip Rap	201
East Embankment		980
332035260	Preload East Embankment	980
DMM Wall		161
332035159	DMM Walls	155
332050100	S Forebay Outlet Struct Sitework	161
Piles		109
332050210	Provide Foundation Piles	50
332050220	Drive Steel Pipe Piles	24
332050240	Conc Placing Crew	3
332050250	Conc Plant & Ops	3
332050260	Rebar Cages	22
332050280	Conc Placing Crew	1
332050290	Conc Plant & Ops	3
332050300	Cure & Cleanup	9
Spillway		185
333010000	New Spillway Earthwork	170
333020020	Concrete Work	122
333020030	Rebar	100
Outlet Structure		378
333005010	S Forebay Outlet Slab Concrete	180
333005020	S Forebay Outlet Slab Rebar	180
333005030	S Forebay Outlet Wall Concrete	180
333005040	S Forebay Outlet Wall Rebar	180
333005050	S Forebay Outlet Roof Concrete	88



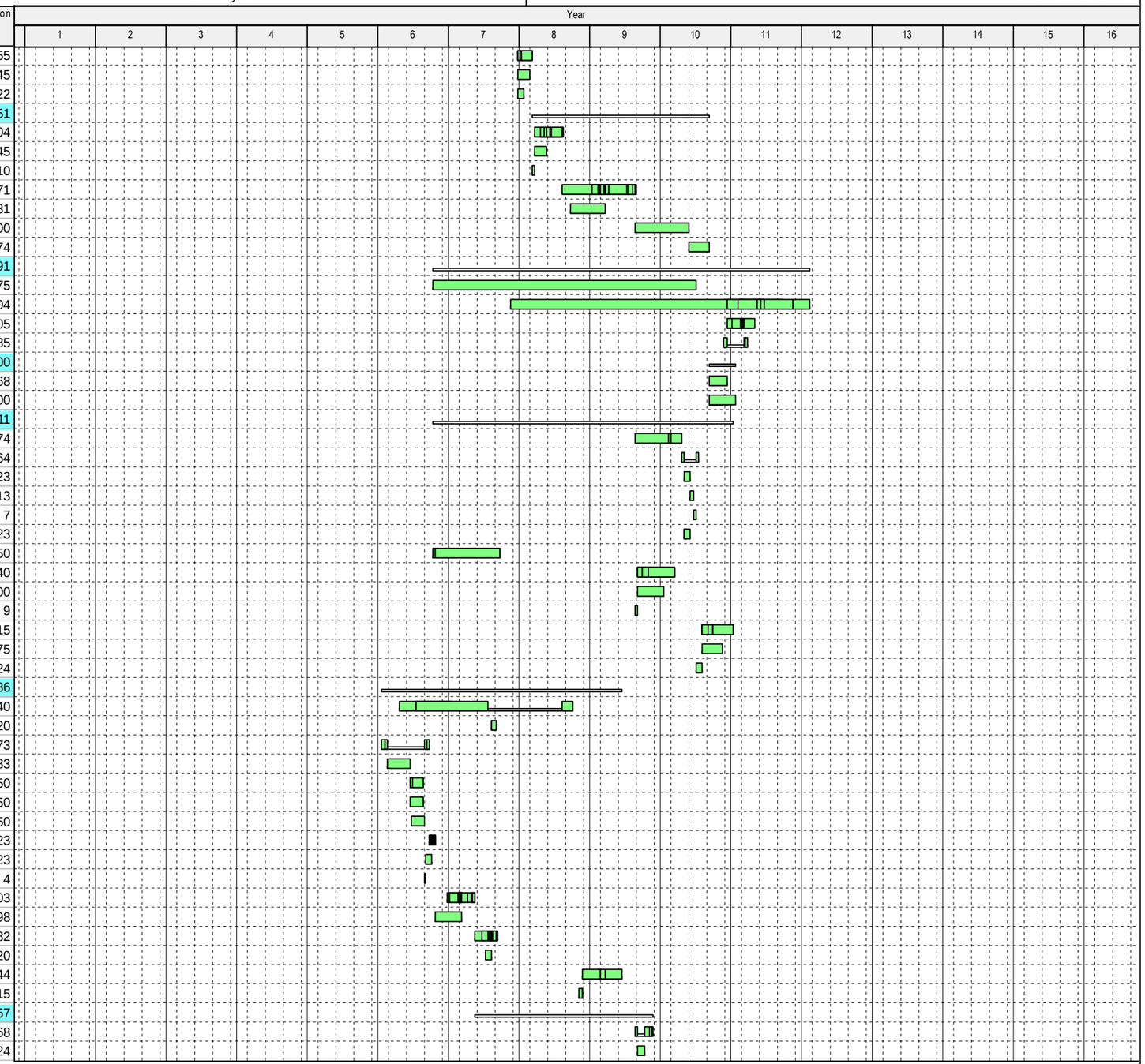
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
333005060	S Forebay Outlet Roof Rebar	26
333005061	SF Outlet Struct Conc, Matt	37
	Gates & MEP	136
333005080	S Forebay Inlet Drop Gates	120
333005090	S Forebay Inlet Gantry Crane	16
333005100	S Forebay Inlet Trash Rack	12
333005120	Intermediate Forebay Inlet Misc. Metal	12
333005130	Intermediate Forebay Inlet Misc. Electrica	50
333005140	Intermediate Forebay Inlet Piping	32
	Site Finishes	181
332050010	SFB Dike Hydroseed & Fencing	181
	Site Restoration	239
	Southern Forebay Site Restoration	239
	PP PUMPING PLANT	2585
	PUMPING PLANTS	2585
	Mobilization & Overhead	162
441003000	Mobilize Pump Plant Contractor	10
441009010	Place Foundation Gavel Bedding	7
441009020	Place Foundation Concrete	78
441009030	Furnish And Place Rebar	31
441009040	Contractors Office	74
441009050	Shops & Warehouse	75
441009060	Other Structures	120
	Sitework	20
442005020	Clear & Grub/Demolition BT Area	16
442005100	Temporary Plating	20
	Ground Improvements (DMM)	187
442020000	BT Pump Plant Ground Improvement(DMM)	187
	BT Pump Plant Diaphragm Walls	1147
443005010	Slurry Wall Mobe and Demobe (Exterior Diaphram Walls)	214
443005040	Temporary Plating (Ext, Diaph. Walls)	15
443005050	Set Guide Walls (Ext. Diaph. Walls)	100
443005060	Excavate (Hydromill) Slurry Trench (Ext. Diaph. Walls)	75
443005070	Reinforcing Steel (Ext. Diaph. Walls)	75
443005080	Concrete (Ext. Diaph Walls)	75
443005090	Slurry Wall Contractor Overhead And Profit (Ext Diaph. Walls)	90
443005110	Deep Wells	1137
443010010	Slurry Wall Mobe & Demobe (Int. Diaph Walls)	117
443010040	Temporary Plating (Int. Diaph Walls)	12
443010050	Set Guide Walls (Int. Diaph Walls)	98
443010060	Excavate (Hydromill) Slurry Trench (Int. Diaph Walls)	59
443010070	Reinforcing Steel (Int. Diaph. Walls)	59
443010080	Concrete (Int. Diaph. Walls)	59
443010090	Slurry Wall Contractor Overhead And Profit (Ext. Diaph Walls)	35
	Pump Plant Foundation Slabs, Walls, Pump Can Concrete	731
442025000	BT Pump Plant Exc. Pump Inside Dia. Wall	149
442035000	BT Pump Plant Exc. Wet Well -84 to 28.0	64
442040000	Dewater & Install Bracing	724
443014999	BT Pump Plant Tremie Conc. Bottom Slab	24
443015010	Place Concrete (Pump Can Concrete)	315
443015020	Furnish And Place Rebar (Pump Can Concrete)	260
443020010	Place Concrete (Exterior Struc. Walls)	235
443020020	Furnish And Place Rebar (exterior Struc. Walls)	200



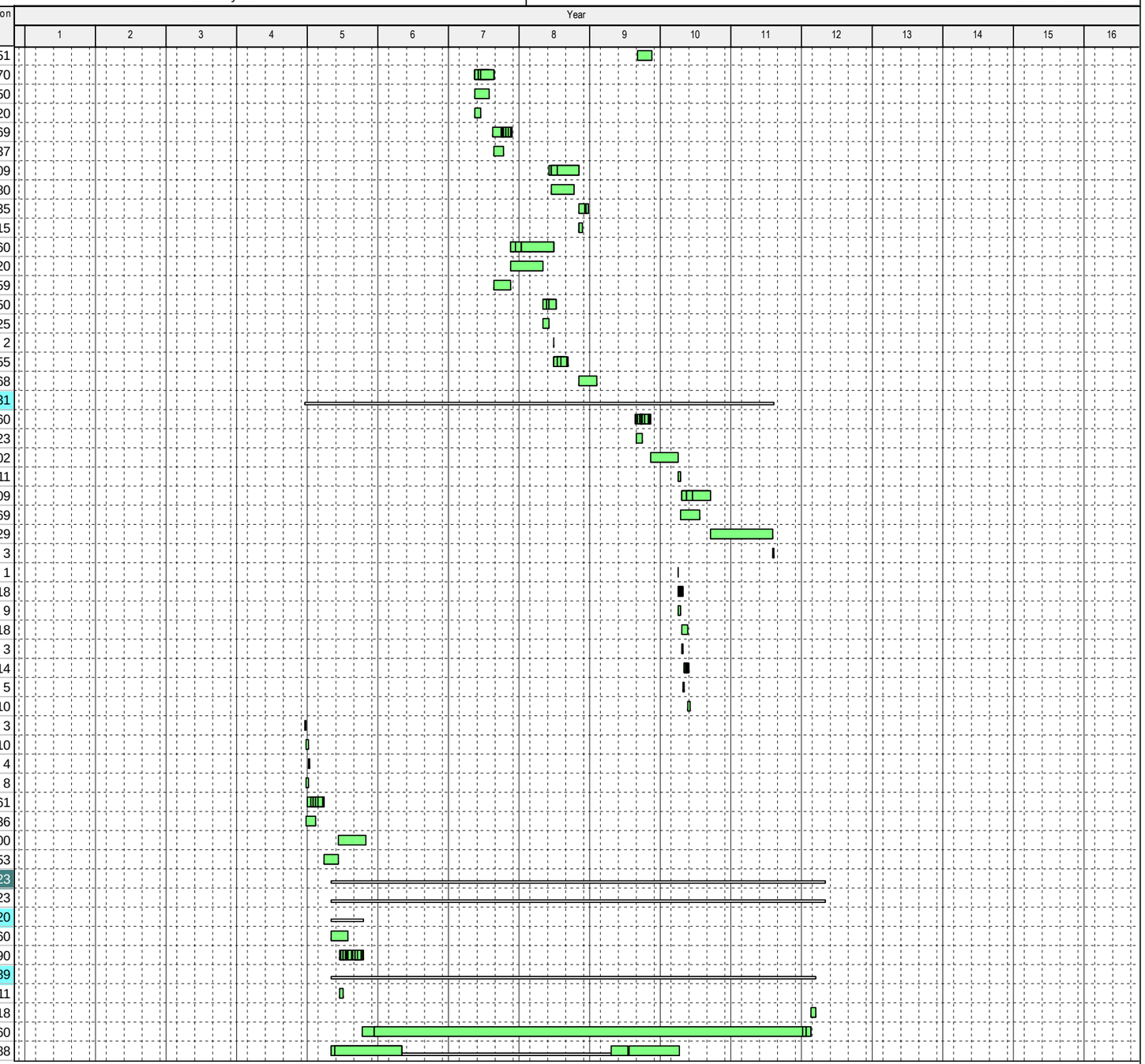
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
443025010	Place Concrete (Slab at El.-77.0)	55
443025020	Furnish And Place Rebar (Slab at El.-77.0)	45
443025030	Foundation Prep (Slab at El.-77.0)	22
	Pump Plant Operation Deck & Structure Above EL. 2950	**651**
443030010	Interior Walls to OP Deck Place Concrete	104
443030020	Interior Walls Furnish And Place Rebar	45
443030030	Interior Walls Foundation Prep	10
443035010	Operations Deck Place Concrete	271
443035020	Operations Deck Furnish And Place Rebar	131
443070000	PP Structure Above El. 2950	200
443080000	Pump Plant Roof Structure	74
	Structure Misc Metals & MEP	**1391**
443040000	Pump Plant Miscellaneous Metals	975
443045000	1123 cfs Pumps & Operators	1104
443050000	563 cfs Pumps & Operators	105
443051000	Wet Well Dewatering Pumps	85
	Pump Plant MEP	**100**
443075000	Pump Plant Overhead Crane	68
443085000	Pump Plant Structure Finish Out	100
	Dissipation Slab	**1111**
442050000	Pump Plant Exc. For Splash Basin	174
442055010	Mobilize & Demobe Drill Spread	64
442055030	Drill & Case As Reqd Pier Shafts	23
442055040	Reinforcing Steel - CDIH Piers	13
442055050	Concrete - CDIH Piers	7
442055060	Pier Shaft Contractor Profit, G&A, & Conti	23
443055000	Piping to Splash Basin	250
443060010	PP Pipe Encasement Place Concrete	140
443060020	PP Pipe Encasement Furnish And Place Rebar	100
443060030	PP Pipe Encasement Foundation Prep	9
443065010	Splash Pad Place Concrete	115
443065020	Splash Pad Furnish And Place Rebar	75
443065030	Splash Pad Foundation Prep	24
	Wet Well	**886**
442045000	Dewater & Install Bracing in Wet Well Section	640
442065000	Excavate WetWell Inlet Conduit	20
444005010	Wet Well Slurry Wall Mobe & Demobe	173
444005050	Wet Well Slurry Wall Set Guide Walls	83
444005060	Wet Well Excavate (Hydromill) Slurry Trench	50
444005070	Wet Well Reinforcing Steel	50
444005080	Wet Well Concrete	50
444010010	Wet Well Inlet Place Concrete (Bottom Slab)	23
444010020	Wet Well Inlet Furnish And Place Rebar (Bottom Slab)	23
444010030	Wet Well Inlet Foundation Prep (Bottom Slab)	4
444015010	Wet Well Inlet Place Concrete (Walls)	103
444015020	Wet Well Inlet Furnish And Place Rebar (Walls)	98
444020010	Wet Well Inlet Top Deck Place Concrete	82
444020020	Wet Well Inlet Top Deck Furnish And Place Rebar	20
444025010	Wet Well Inlet Top Deck Double Isolation Roller Gates	144
444025020	Wet Well Inlet Top Deck Double Isolation Gantry Crane	15
	Outlet Structure	**657**
442070000	Gravity Flow Outlet Structure Sheet Pile for Exc.	68
442071000	Remove Top 105' of Interior Wall	24



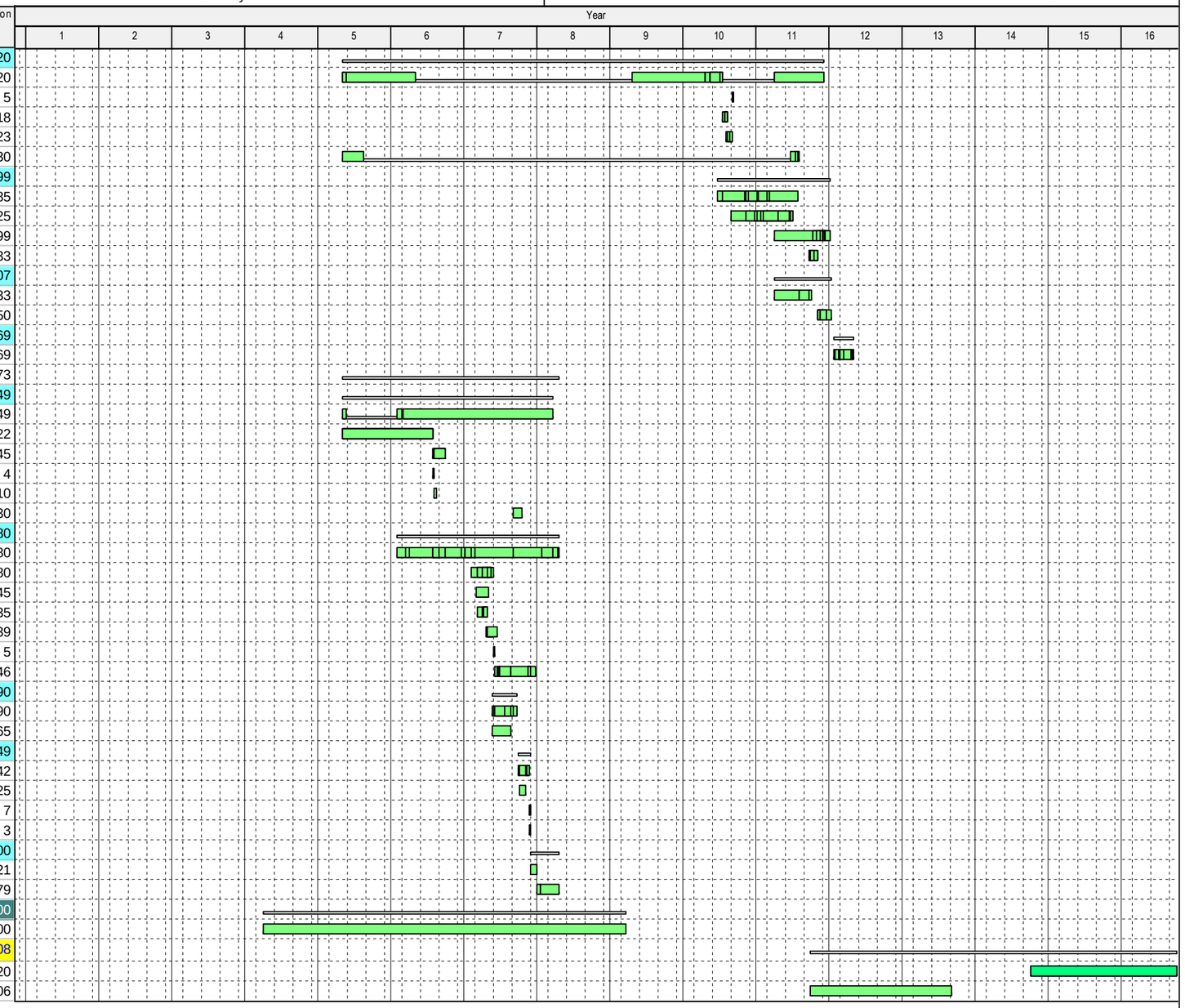
TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
442080000	Excavation for Gravity Flow Structure	51
444030010	Place Concrete (Bottom Slab)	70
444030020	Furnish And Place Rebar (Bottom Slab)	50
444030030	Foundation Prep (Bottom Slab)	20
444035010	Place Concrete (Walls)	69
444035020	Furnish And Place Rebar (Walls)	37
444040010	Place Concrete (Top Slab)	109
444040020	Furnish And Place Rebar (Top Slab)	80
444050010	Gravity Flow Roller Gates	35
444050020	Gravity Flow Gantry Crane	15
444055010	Gravity Flow Structure Place Concrete	160
444055020	Gravity Flow Strucutre Furnish And Place Rebar	120
444055030	Gravity Flow Structure Foundation Prep	59
444060010	PP Outlet Retaining Wall Concrete	50
444060020	PP Outlet Retaining Wall Rebar	25
444060030	PP Outlet Retaining Wall Concrete	2
444061010	Slab & Walls Between PP & Launch Shaft Wall Concrete	55
444065000	PP Gravity Outlet Flow Structure Overhead Crane	68
Ancilarry Buildings & Structures		1731
443090010	PP MCC/Electrical Building Foundation Slab	60
443090020	PP MCC/Electrical Building Furnish And Place Rebar	23
443090030	PP MCC/Electrical Building Building Construction And Equipment	102
443095010	PP Storage Area & Yard Place Foundation Gavel Bedding	11
443095020	PP Storage Area & Yard Place Foundation Slab Concrete	109
443095030	PP Storage Area & Yard Furnish And Place Rebar	69
443095040	PP Storage Area & Yard Building Construction And Equipment	229
443100020	PP Storage Area & Yard Place Gavel Bedding	3
443105010	Generator Building Place Foundation Gravel Bedding	1
443105020	Generator Building Place Foundation Concrete	18
443105030	Generator Building Furnish And Place Rebar	9
443105040	Generator Building Construction And Equipment	18
443106010	HVAC Yard Place Foundation Gravel Bedding	3
443106020	HVAC Yard Place Foundation Concrete	14
443106030	HVAC Yard Furnish And Place Rebar	5
443106040	HVAC Yard Equipment Install	10
443110010	Substation Excavate/Grade Foundation Slab	3
443110020	Substation Provide Foundation Piles (50 LF)	10
443110030	Substation Drive Foundation Piles	4
443110040	Substation Place Gavel Bedding	8
443110050	Substation Place Concrete	61
443110060	Substation Furnish And Place Rebar	36
443110070	Substation Erect Substation & Transformers	100
443110080	Substation & Electrical Distribution	53
SOUTH DELTA CONNECTIONS		1823
BANKS OUTLET STRUCTURE		1823
Mobilization & Overhead		120
551020000	Mobilization	60
551050	Temporary Facilities	90
Tunnel Outlet		1789
552005	Clearing & Grubbing Banks Outlet Struct Area	11
552008	Site Fencing	18
552505	Banks Tunnel Outlet Structure Dewatering	1660
553005	Outlet Structure Earthwork	1288



TASK filter: summary schedule.

Activity ID	Activity Name	Original Duration
	Outlet Structure	1720
	553005 - Outlet Structure Earthwork	1720
	553015 - Stilling Well Backfill	5
	553015 - Stilling Well Slab	18
	553015 - Stilling Well Walls	23
	553030 - Sheetpiles	1630
	Slab & Weir	399
	553015 - Banks Tunnel Outlet Structure Slab Concrete	285
	553015 - Banks Tunnel Outlet Walls & Pier Concrete	225
	5530151 - BTO Bridge Slab Concrete	199
	5530157 - BTO CS Weir Concrete	33
	Gates & MEP	207
	553020 - Banks Tunnel Outlet Structure Gates & Stop Logs	133
	553025 - Banks Tunnel Outlet Structure MEP	50
	Site Restoration	69
	S. Delta Outlet/CA Aque Cont. Str.-Restoration	69
	CALIFORNIA AQUIDUCT CONTROL STRUCTURE	773
	Earthworks	749
	55303001 - Dewater Canal Structure	749
	55303003 - Excavate Diversion Channel	322
	55303004 - Push/Pile Excavation On Outside Of Channel	45
	55303005 - Scarify & Recompact Canal Invert	4
	55303006 - Finish & Compact	10
	55303007 - Backfill	30
	Slab	580
	5530350 - Calif. Aqueduct Control Structure Earthworks	580
	553040010 - California Aqueduct CS Slab Concrete	80
	553040020 - California Aqueduct CS Slab Rebar	45
	553040021 - California Aqueduct CS CS Stilling Wells Slab	35
	553040021 - California Aqueduct CS CS Stilling Wells Walls	39
	553040024 - California Aqueduct CS CS Stilling Wells Backfill	5
	553045000 - Articulated Paving Blocks	146
	Walls	90
	553040030 - Californiua Aqueduct CS Wall Concrete	90
	553040040 - California Aqueduct CS Wall Rebar	65
	Weir & Bridge	49
	553040050 - California Aqueduct CS Bridge Slab Concrete	42
	553040060 - California Aqueduct CS Bridge Slab Rebar	25
	553040070 - California Aqueduct CS Weir Concrete	7
	553040080 - California Aqueduct CS Weir Rebar	3
	Gates & MEP	100
	553040090 - California Aqueduct CS Misc. Metal	21
	553040100 - California Aqueduct CS Gates & Stoplogs	79
	MISC ADDITIONAL CONSTRUCTION ACTIVITIES	1300
	Allowance	1300
	CM COMMUNICATION & CONTROL / COMMISSIONING	1308
	Commissioning	520
	Communicatrion & Control	506



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